Report of a Deserter or Absentee without leave from the 1st Battalion, Manchester Regiment, dated at Kamptee, this 19th day of November 1910.

Number, Rank, and Name—551, Private, John Stafford.
Age—23 years 3 months.
Height—5 feet 4 inches.
Colour of—Complexion, fresh; hair, brown; eyes, grey.
Trade—Tramway Guard.
Date of enlistment—4th August 1905.
Place of enlistment—Ashton-U.-Lyne.
Parish and County in which born—Dublin, Ireland.
Date of desertion or absence—11th November 1910.
Place of desertion or absence—Kamptee.
Marks—A. B. tattooed left forearms and J. H. back of left hand.
Under 6 years' service.

A. H. BALDWIN, Lieut.-Colonel,
Commanding 1st Battalion, Manchester Regiment.

Report of a Deserter or Absentee without leave from the 1st Battalion, The King's Own Regiment, dated at Lucknow, this 19th day of November 1910.

Number, Rank, and Name—9423, Private, Percy Cnarles Fry.
Age—26 years 9 months.
Height—5 feet 7¾ inches.
Colour of Complexion, fresh; hair, dark brown; eyes, brown.
Trade—Clerk.
Date of enlistment—10th July 1907.
Place of enlistment—Lancaster.
Parish and County in which born—Brighton, Brighton, Sussex.
Date of desertion or absence—17th November 1910.
Place of desertion or absence—Lucknow.
Marks—Scar left groin; web toe 2nd and 3rd each foot.
Under 4 years' service.

J. H. A. BOYCE, Lieut.-Colonel,
Commanding 1st Battalion, The King's Own Regiment.

POST OFFICE.

NOTIFICATIONS.

Calcutta, the 18th November 1910.

No. 1474-*Ap*.—Mr. R. Greene, Superintendent of post offices, 4th grade, is granted an extension of privilege leave for 15 days with effect from the 2nd November 1910.

No. 1484-*Ap*.—The following officiating appointments are made with effect from the date noted against each, *vice* Mr. F. F. Shout, Personal Assistant to the Director-General of the Post Office, in the grade of R400—500, appointed to act as Assistant Director-General of the Post Office from the 9th October 1910:—

Babu Manindra Nath Banerji, Personal Assistant to the Director-General of the Post Office, in the grade of R300—400, to act in the grade of R400—500, from the 9th October 1910 and until further orders;

Mr. E. Counsell, Head clerk, Office of the Director-General of the Post Office, to act as Personal Assistant to the Director-General of the Post Office in the grade of R300—400, from the 20th October 1910 and until further orders.

No. 1486-*Ap*.—Mr. F. W. Aikin, 1st Assistant Postmaster, Bombay, pay R300—400, is granted privilege leave for three months with effect from the 24th October 1910.

No. 1494-*Ap*.—The following promotions are made with effect from the 15th October 1910, *vice* Babu Gagan Chandra Ghosh, Postmaster, Barisal, pay R300—400, retired:—

Babu Akshaya Bhusan Ganguli, 2nd Assistant Postmaster, Rangoon, pay R200—300, and officiating Deputy Postmaster, Rangoon, pay R300—400, to be Postmaster Barisal.

Mr. J. C. O'Laughlin, Head Clerk, Savings Bank Department, Rangoon post office, pay R150—200, and officiating Deputy Postmaster, Rangoon, to be 2nd Assistant Postmaster, Rangoon.

No. 1504-*Ap*.—Mr. F. J. Loughlin, Postmaster, Fyzabad, and Officiating Postmaster, Naini Tal, is appointed 3rd Assistant Postmaster, Bombay, pay R200—300, with effect from the 31st October 1910.

The 21st November 1910.

No. 1528-*Ap*.—This office Notification No. 2308 *S*-Ap., dated the 6th October 1910, is hereby cancelled.

The 24th November 1910.

No. 1565-*Ap*.—Mr. Hafiz Muhammad Abdul Gany, Superintendent of post offices, 2nd grade, is granted an extension of privilege leave for eleven days with effect from the 20th November 1910.

C. STEWART-WILSON,
Director-General of the Post Office of India.

NORTH-WEST FRONTIER PROVINCE—PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

NOTIFICATIONS.

RESUMPTION OF CHARGE.

Lahore, the 17th November 1910.

No. 4427-*E. I. F.*—With reference to Irrigation Branch Notification No. 01911-E. I. F., dated 1st September 1910, Mr. E. R. Foy, Executive Engineer, on return from leave, resumed executive charge of the Mardan Division, Upper Swat River Canal, on the forenoon of the 19th September 1910, from Mr. F. H. Burkitt, Officiating Executive Engineer.

TRANSFER.

The 19th November 1910.

No. 4524-*I.F.*—Mr. F. H. Burkitt, Assistant Engineer, from the Swabi Division, Upper Swat River Canal, which he left on the forenoon of the 3rd November 1910, to the Malakand Division, Upper Swat River Canal, which he joined on the forenoon of the 4th idem.

W. E. T. BENNETT,
Offg. Secretary to the Chief Commissioner,
North-West Frontier Province.

OFFICE OF THE INSPECTOR GENERAL OF POLICE—NORTH-WEST FRONTIER PROVINCE.

NOTIFICATIONS.

APPOINTMENT.

Peshawar, the 19th November 1910.

No. 29.—Mr. J. G. Hennessy, North-West Frontier Province Provincial Service, is appointed by His Majesty's Secretary of State for India an Assistant Superintendent of Police, 3rd grade, on the combined cadre of the Punjab and North-West Frontier Province for service in the latter Province.

POSTING.

The 19th November 1910.

No. 30.—Mr. J. G. Hennessy, Assistant Superintendent of Police, 3rd grade, is posted to the Peshawar District where he took charge of his duties on the forenoon of the 18th November 1910.

H. ARDEN CLOSE,
Inspector-General of Police, N.-W. F. Province.

NORTH-WEST FRONTIER PROVINCE—MEDICAL DEPARTMENT.

NOTIFICATIONS

Peshawar, the 19th November 1910.

No. 2050—6220-*M.I.*—Third grade Assistant Surgeon Narain Singh was relieved of general duty at the Kohat Civil Dispensary on the afternoon of the 10th November 1910 and transferred to Hangu where he was placed on general duty at the Civil Dispensary on the forenoon of the 11th November 1910.

No. 2054—6224-*M.I.*—Third grade Assistant Surgeon C. C. Ghosh attached to the Hangu Civil Dispensary has obtained one month's privilege leave and was relieved of his duties on the afternoon of the 15th November 1910.

A. L. DUKE, Lieut.-Colonel, I.M.S.,
Administrative Medical Officer, N.-W. F. Province.

NORTH-WEST FRONTIER PROVINCE—MEDICAL DEPARTMENT.

Weekly Return of Births and Deaths registered at the undermentioned Municipal Towns in the North-West Frontier Province during the week ending Saturday, the 5th November 1910.

Number.	Districts.	Municipal Towns.	Population according to the Census of 1901.	Births.			Deaths.			Cause of death.								Infants under one year of age.			Ratio of births per 1,000 of population per annum.	Ratio of deaths per 1,000 of population per annum.	Number.
				Males.	Females.	Total.	Total.	Males.	Females.	Cholera.	Small-pox.	Plague.	Fever.	Dysentery and Diarrhœa.	Respiratory disease.	Injuries.	All other causes.	Males.	Females.	Total.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	Hazára	Abbottabad	3,395	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	...	1
2	Hazára	Nawashahr (notified area).	4,114	2	5	7	2	...	2	...	...	...	1	...	...	...	1	...	...	...	89	25	2
3	Hazára	Buffa (notified area)	7,029	2	6	8	8	5	3	...	...	...	6	...	1	...	1	2	...	2	59	59	3
4	Hazára	Haripur	5,578	1	2	3	3	1	2	...	...	...	2	...	...	...	1	...	2	2	28	28	4
5	Pesháwar	Pesháwar	73,343	23	19	42	49	24	25	1	...	...	34	...	6	...	8	3	4	7	30	35	5
6	Pesháwar	Nowshera Kalan (notified area).	9,663	8	...	8	1	1	...	...	...	...	1	...	...	...	...	1	...	1	43	5	6
7	Kohat	Kohat	18,092	3	3	6	6	4	2	...	...	...	6	...	...	...	...	3	1	4	17	17	7
8	Bannu	Bannu	10,070	9	14	23	13	5	8	...	4	...	1	...	...	...	8	2	6	8	119	67	8
9	Bannu	Lakki (notified area)	5,218	1	3	4	1	...	1	...	...	...	1	...	...	...	...	...	...	...	40	10	9
10	Dera Ismail Khan.	Dera Ismail Khan	28,287	10	15	25	14	6	8	...	...	...	7	...	2	...	5	2	3	5	46	26	10
11	Dera Ismail Khan.	Kulachi	9,125	2	1	3	3	1	2	...	...	...	1	2	...	...	...	...	1	1	17	17	11
12	Dera Ismail Khan.	Tank (notified area)	4,402	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	...	12
13	Mardan Sub-Division.	Becketganj-Khwajaganj (notified area)	5,566	2	1	3	1	...	1	...	...	...	1	...	...	...	...	...	...	...	28	9	13
		TOTAL	183,882	66	69	135	101	47	54	1	4	...	61	2	9	...	24	13	17	30	38	29	

Remarks by the Administrative Medical Officer, North-West Frontier Province, on the general health of the Municipal Towns during the week ending Saturday, the 5th November 1910.

Births and deaths in Municipal Towns—In the 13 Municipal Towns, 135 births were registered (66 males and 69 females), giving a birth-rate of 38 *per mille* of population ; 101 deaths were registered (47 males and 54 females), giving a death-rate of 29 *per mille* of population.

Pesháwar, the 22nd November 1910.

E. PENN DAVID,
for Administrative Medical Officer, North-West Frontier Province.

ADMINISTRATOR-GENERAL OF BENGAL.

Notice of deaths sent to the Administrator-General of Bengal under section 64 of Act II of 1874.

Name of deceased.	Place of death.	Date of death.	By whom death reported, and when.	REMARKS.
Mr. Edward Retienne, employed by Burma Mines Company, Limited.	.....	6th August 1910 .	Superintendent of the Northern Shan States, Lashio, on 1st September 1910.	No Will of the deceased has been found. The value of the estate is under R1,000, and the Administrator-General is not required by law to move in the matter.
Mr. G. Manook, an Armenian.	Mandalay . .	27th January 1910 .	District Judge, Mandalay, on 13th October 1910.	The deceased is said to have left two unattested documents purporting to be Wills, and the Administrator-General is in communication with the District Judge enquiring if the person named in one of the documents as executor intends to move in the matter.
Mr. J. G. Robertson .	Jalpaiguri . .	21st August 1910 .	District Judge, Dinajpur, on 4th November 1910.	The deceased has left a Will, which is in the custody of Mr. W. J. Milne who it is understood will apply for probate.
Mr. William Parks, Driver, East Indian Railway, Asansol.	.....	1st September 1910 .	District Judge, Burdwan, on 7th—8th November 1910.	The deceased has left a Will without appointing any executor. Further report is awaited from the District Judge.
Miss L. F. Thornton Stewart.	Charitable Hospital, Darjeeling.	26th June 1910 . .	District Judge, Purnea, on 14th September 1910.	The deceased has left no Will. Steps are being taken by the Administrator-General to represent the estate.
Sub-Conductor E. M. Prescott, late Unattached list, Telegraph Master, Bannu.	Rawal Pindi . .	18th September 1910 .	District Judge, Rawal Pindi, on 22nd September 1910.	The value of the estate is under R1,000. The deceased's widow has been directed to apply for a certificate to this office.
Mr. W. M. Ford, late a Guard of the E. I. Ry., Gaya.	Gaya . . .	20th October 1910 .	District Judge, Gaya, on 28th October 1910.	The deceased has left a Will, and his sister, Miss H. Dyce Ford, is taking steps to obtain probate thereof.
Mrs. M. Bolton, of Fyzabad.	.....	2nd " " .	District Judge, Fyzabad, on 22nd October 1910.	The deceased has left a Will, and Mr. Alexander Speirs, Pleader, Fyzabad, one of the executors named in the Will, has applied for probate.
Mrs. Amelia Alexandria, St. John.	Ramsay Hospital, Naini Tal.	18th September 1910 .	District Judge, Kumaon Division, on 8th October 1910.	The Will left by the deceased is at present in the custody of her husband, which is being sent to her sister in England, who is the sole Executrix and Trustee appointed by the Will. The deceased left no asset in India.
Lieutenant-Colonel F. D. Maxwell, C.I.E., I.A., Commissioner of the Irrawaddy Division.	Rangoon . . .	13th August 1910 .	District Judge, Bassein, Henzada, on 17th August 1910.	The deceased has left a Will in England, and it is expected that Mrs. Maxwell, who is in England and who has been appointed sole Executrix, will appoint some one here to act on her behalf.
Mr. John Johnson, a Government pensioner.	Ramsay Hospital at Naini Tal . .	25th September 1910 .	District Judge, Kumaon Division, on 10th October 1910.	The widow of the deceased, who is the Executrix appointed under the Will, has applied for probate.
Revd. Mr. Waugh, an American Missionary of Naini Tal.	Moradabad . .	21st January 1910 .	District Judge, Kumaon Division on 22nd September 1910.	The deceased has left a Will, and his widow, who has been appointed Executrix, is taking steps to prove the Will.

HENRY T. HYDE,
Administrator-General of Bengal.

3, COUNCIL HOUSE STREET;
Calcutta, the 14th November 1910.

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LIST OF NEW BOOKS PUBLISHED DURING THE CURRENT QUARTER.

LEGISLATIVE DEPARTMENT.

Act I of 1904 (Prisons), with footnotes. 2*a*. 9*p*. (1*a*.)
General Rules and Orders made under Enactments in force in British India, Vol. IV. Edition 1910. R5 or 7*s*. 6*d*. (9*a*.)

Act IX of 1910. Urdu and Hindi. As. 1-9. (1*a.*) each.
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The Inland Steam Vessels Act, 1884 (Act VI of 1884), as modified up to the 1st October 1910. Royal 8vo. Stitched. 9*a.* (2*a.*)

HOME DEPARTMENT.

Report on the Measures taken against Malaria in the Lahore (Mian Mir) Cantonment, 1909, by Hon'ble Mr. R. Nathan, C.I.E., I.C.S., Lieutenant-Colonel H. B. Thornhill, C.I.E., I.A., and Major L. Rogers, M.D., F.R.C.P., F.R.C.S., I.M.S., 1909. Foolscap. Board. R2-8 or 4*s.* (5*a.*)
Quarterly List of Officers in the Departments of the Government of India from October to December 1910. Foolscap. Paper cover. 4*a.* or 5*d.* (1*a.*)
Scientific Memoirs by Officers of the Medical and Sanitary Departments of the Government of India.—Preliminary Report on the killing of Rats and Rat Fleas, by Hydrocyanic acid Gas by Captain W. D. H. Stevenson, M.B., I.M.S., New series No. 38. Super Royal 4to. Board. 8*a.* or 9*d.* (4*a.*)
The Quarterly Civil List of the Home and. Legislative Departments, Government of India. No. 14. Corrected to 1st October 1910. Royal 8vo. Limp. 11*a.* or 1*s.*

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History of Services of Officers holding Gazetted appointments under the Foreign Department. Corrected to 1st July 1910. Royal 8vo. Board. 12*a.* or 1*s.* (6*a.*)
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LIST OF BOOKS PUBLISHED FROM APRIL TO SEPTEMBER 1910.

LEGISLATIVE DEPARTMENT.

The Indian Arms Act, 1878 (Act XI of 1878), as modified up to the 1st March 1910. 5*a*. 6*p*. (1*a*.)

Corrigendum to Volume II of the Unrepealed General Acts, edition 1909.

Corrigendum to the Sea Customs Act, 1878 (VIII of 1878), as modified up to 1st June 1908.

The General Clauses Act (X of 1897) as modified up to 1st February 1910. 5*a*. 6*p*. (1*a*. 6*p*.)

Act 26 of 1881. In Urdu and Hindi. As. 4. (1*a*. each.

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Act II of 1857 (Calcutta University), as modified up to 1st June 1910. 2*a*. (1*a*.)

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The Opium Act, 1878 (Act I of 1878), as modified up to the 1st July 1910. 5*a*. 6*p*. (1*a*.)

Act XXXI of 1854 (Conveyance of Land) as modified up to 1st June 1910. 2*a*. 3*p*. (1*a*.)

The Prisoners Act, 1900 (III of 1900), as modified up to 1st July 1910. 6*a*. 6*p*. (1*a*.)

The Probate and Administration Act, 1881 (Act V of 1881), as modified up to the 1st July 1910. 12*a*. (2*a*.)

List No. I of 1910, dated 30th June 1910, of Addenda et Corrigenda to List of General Rules and Orders. 2*a*. 3*p*. (1*a*.)

Act No. III of 1864 (Foreigners) as modified up to 1st September 1910. 3*a*. 6*p*. (1*a*.)

The Assam Labour and Emigration Act, 1901 (VI of 1901) as modified up to 1st July 1910. R1-4 (2*a*.)

HOME DEPARTMENT.

Annual Report of the Sanitary Commissioner with the Government of India for 1908. With Appendices and Returns of Sickness and Mortality among European Troops, Native Troops and Prisoners in India for the year. Foolscap. Board. R3 or 4*s*. 6*d*. (8*a*.)

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Rules of the High Court of Judicature at Fort William in Bengal, Appellate Side. Royal 8vo. Board. R2 or 3*s*. (4*a*.)

Report on the results of certain Investigations regarding Rats in the Punjab by Captain G. I. Davys, I.M.S. Foolscap. Board. 6*a*. or 7*d*. (3*a*.)

Scientific Memoirs by Officers of the Medical and Sanitary Departments of the Government of India. Investigation on Bengal Jail Dietaries with some observations on the Influence of dietary on the physical development and well-being of the people of Bengal by Captain D. McCay, M.B., B.Ch., B.A.O., I.M.S. Super Royal 4to. Board. R2-6 or 4*s*. 3*d*. (9*a*.)

Archæological Survey of India, Vol. XXXV, Akbar's Tomb, Sikandarh. Super Royal. Cloth. R23 or £1 15*s*. (14*a*.)

Fauna of British India. "Dermaptera." Royal 8vo. Cloth. R7 8*a*. (5*a*.)

Quarterly List of Officers in the Departments of the Government of India from July to September 1910. Foolscap. Paper cover. 4*a*. or 5*d*. (1*a*.)

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General Rules and Circular orders of the High Court of Judicature at Fort William in Bengal, Appellate Side, Civil. Vol. I, 1910 Edition. Royal 8vo. Board. R1 12*a*. or 3*s*. (6*a*.)

Selections from the Records of the Government of India, Home Department, No. CCCCXLV.—Papers regarding the Question of the Abolition of Fees in Primary Schools. Foolscap. Board. R4 4*a*. (9*a*.)

FOREIGN DEPARTMENT.

The Quarterly Civil List of the Foreign Department No. 15. Corrected up to the 1st April 1910. Super Royal 8vo. Paper cover. R2-8 or 3*s*. 9*d*. (4*a*.)

Selections from the Records of the Government of India, Foreign Department, No. CCCCXLIII—Correspondence between His Excellency Lord Minto and certain Ruling Chiefs regarding measures to be taken for the suppression of sedition and extracts from Speeches during His Excellency's recent tour. Foolscap. Board. 6*a*. or 7*d*. (3*a*.)

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List of officers appointed by the Government of India in the Finance Department corrected to February, March and April 1910. Royal 8vo. Paper cover. 4*a*. or 5*d*. (1*a*.) each.

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Financial Statement for 1910-11. Foolscap. Board. R2 or 3*s*. (9*a*.)

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Annual Report of the Board of Scientific Advice for India for the year 1908-09. Royal 8vo. Paper cover. R1 or 1*s*. 6*d*. (4*a*.)

The Indian Forest Records, Vol. II, Part II. A Note on the Fissibility of some Indian Woods. Royal 8vo. Paper cover. R1-6 or 1*s*. 9*d*. (2*a*.)

The Indian Forest Memoirs, Vol. II, Part I. (Economic Product Series). The Prospects of the Match Industry in the Indian Empire with particulars of proposed Match Factory Sites and woods suitable for match manufacture. Super-Royal 4to. Paper cover. R1-12 or 3*s*. (5*a*.)

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PUBLIC WORKS DEPARTMENT.

Classified List and Distribution Return of Establishment. Corrected up to 30th June 1910. Royal 8vo. Paper Cover. R1 or 1*s*. 6*d*. (2*a*.)

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Papers and Maps set for the Examination in subjects (d) to (j) for promotion held in India in October 1909 with remarks by the examiners. Demy 8vo. Board. R1 or 1*s*. 6*d*. (2*a*.)

Report on the Examination in subjects (d to (j) for promotion held in India in March 1910, with remarks by Examiner, 1910. Price R1 or 1*s*. 6*d*. (2*a*.)

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Alphabetical List of Stations on Indian Railways (including Steamer and Out-Agency Stations worked in connection therewith) corrected up to the 31st December 1909. Foolscap. Paper cover. R1 or 1*s*. 6*d*. (5*a*.)

Administration Report on the Railways in India for the calendar year 1909. Foolscap. Limp cover. R2 or 2*s*. 8*d*. (6*a*.)

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ACCOUNTANT GENERAL, BENGAL.

History of Services of Gazetted and other Officers serving under the Government of Bengal, corrected to 1st July 1909. Part I. Royal 8vo. Board. R2 or 3*s*. (8*a*.) Part II. R2 or 3*s*. (6*a*.) Complete R4 or 6*s*. (14*a*.)

OTHER LOCAL GOVERNMENTS AND ADMINISTRATIONS.

North-West Frontier Province District Gazetteers, Volume III B, Kohat District, Statistical Table 1904. Royal 8vo. Board. R1 or 1*s*. 4*d*. (3*a*.)

Note on the Registration Returns of the North-West Frontier Province for the year 1909. Foolscap Paper cover. 6*a*. or 6*d*. (2*a*.)

Report of the Chemical Examiner to Government, North-West Frontier Province, for the year 1909. Foolscap. Paper cover. 2*a*. 3*p*. or 2½*d*. (2*a*.)

Selections from the Records of the Madras Government, Dutch Records No. 9. Extracts from General Inventories and Establishment lists of the years 1743, 1761 and 1780. Copied by the Rev. P. Groot. Foolscap. Board. 10*a*. or 1*s*. (2*a*.)

Report of the Sanitary Commissioner of the North-West Frontier Province, 1909. Foolscap. Paper cover. 4*a*. 6*p*. (2*a*.)

Records of Fort St. George.—Diary and Consultation Book, Military Department, 1752. Foolscap. Board. R1-2 or 1*s*. 9*d*. (3*a*.)

Administration Report of the Jails of the North-West Frontier Province for the year 1909. Foolscap. Paper cover. As. 10 or 10*d*. (2*a*.)

Report on Vaccination in the North-West Frontier Province for the year 1909-1910. Foolscap Paper cover. As. 5 or 5*d*. (2*a*.)

LIST OF NEW BOOKS FOR SALE AT THOMASON COLLEGE, ROORKEE, WHICH WERE NOT ADVERTISED BEFORE.

Roorkee Treatise and Civil Engineering—

Section IX, Railways, 5th Edition. Revised by F. G. Royal Dawson, 1908. R4-4.
Section V, Manual of Estimating, 7th Edition, 1908. (Reprint.) R3-12.

Thomason College Calendar for 1908. R5-2.

LIST OF NEW BOOKS AND PERIODICALS FOR SALE AT THE LIBRARY OF THE ASIATIC SOCIETY OF BENGAL, 57, PARK STREET, CALCUTTA.

SOCIETY'S PUBLICATIONS.

Journal and Proceedings, Vol. 5, Nos. 2 to 11, at R2 each.

Memoirs, Vol. 2, No. 10, Cerrhipedes Opercules de l'Indian Museum de Calcutta. Par Mr. M. A. Gruval, at R2.

Memoirs, Vol. 2, No. 11, Correlations of Areas of Matured Crops and the Rainfall. By Mr. S. M. Jacob, I.C.S., at R2-8.

BIBLIOTHECA INDICA.

Rasarnavam, Fasc. 2. By Dr. P. C. Roy, at R1-4.

Grihya Sangraha. By M. M. Chandra Kanta Tarkalankar, at As. 10.

Gobhila Paricista, Part I. By M. M. Chandra Kanta Tarkalankar, at R1-14.

Baudhayana Srauta Sutra, Vol. 2, Fasc. 3. By Dr. W. Caland, at As. 10.

Suryya Siddhanta, Fasc. 1. By M. M. Sudhakara Dvivedi, at R1-4.

Chaturvarga Cintamoni, Vol. 4, Fasc. 9. By Pandit Pramatha Nath Tarkabhusana. As. 10.

Avadhan Kalpalata, Vol. I. Fasc. 7. By Rai Sarat Chandra Das Bahadur, at R1.

Mohabhasyapradipodyata, Vol. 3, Fasc. 10. By Pandit Bahuvallava Shastri, at As. 10.

Muntakhab-al-Labab. Part 3, Fasc. 1. By Major T. W. Haig, I.A., at R1.

LIST OF PUBLICATIONS ISSUED BY THE METEOROLOGICAL DEPARTMENT FROM 1ST APRIL TO 30TH SEPTEMBER 1910.

Monthly Weather Review for September 1909 to March 1910. (Illustrated by 7 plates.) Quarto. Paper cover. R1 per month.

Memoirs of the Indian Meteorological Department, Vol. XVIII, Part IV. By Sir John Eliot, M.A., F.R.S., K.C.I.E. (Illustrated by 40 plates.) Quarto. Paper cover. R2.

Memoirs of the Indian Meteorological Department, Vol. XXI, Part I. By Gilbert T. Walker, M.A., D.Sc., F.R.S. (Illustrated by 7 plates.) Quarto. Paper cover. R1 8*a*.

Monthly Weather Review for December 1909 to June 1910. (Illustrated by 7 plates.) Quarto. Paper cover. R1 per month.

Memoirs of the Indian Meteorological Department, Vol. XXI, Part II. By Gilbert T. Walker, M.A., D.Sc., F.R.S. (Illustrated by 2 plates.) Quarto. Paper cover. Price R1-8.

Memoirs of the Indian Meteorological Department, Vol. XX, Part 8. By George C. Simpson, D.Sc. (Illustrated by 2 plates.) Quarto. Paper cover. Price R3.

Tables for the reduction of Meteorological Observations in India. Quarto. Cloth binding. R2.

LIST OF NEW BOOKS PUBLISHED BY THE GEOLOGICAL SURVEY OF INDIA DURING THE WEEKS ENDING 24TH SEPTEMBER, 8TH OCTOBER 12TH NOVEMBER AND 19TH NOVEMBER 1910.

Records of the Geological Survey of India, Volume XXXIX, 1910. By Sir Thomas H, Holland, K.C.I.E., D.Sc., F.R.S., and L. Leigh Fermor, D.Sc., A.R.S.M., F.G.S. (with Plates 1-8). R2.

Records of the Geological Survey of India, Volume XL, Part I. Director, Geological Survey of India. R1.

Records of the Geological Survey of India, Volume XL, Part II. T. H. D. LaTouche, Esq., B.A., F.G.S., Offg. Director, Geological Survey of India. R1.

Records of the Geological Survey of India, Volume XL, Part III. Director, Geological Survey of India. R1.

Memoirs of the Geological Survey of India, Palæontologia Indica. Serices XV, Vol IV, Fasc. 3. By Dr. Victor Uhlig. R8.

LIST OF PUBLICATIONS ISSUED BY THE METEOROLOGICAL DEPARTMENT DURING THE CURRENT QUARTER.

Monthly Weather Review for July 1910. Illustrated by 7 plates. Quarto. Paper cover. Price R1.

The Gazette of India.

PUBLISHED BY AUTHORITY.

CALCUTTA, SATURDAY, DECEMBER 3, 1910.

Separate paging is given to this Part in order that it may be filed as a separate compilation.

PART II.

Notifications by High Court, Comptroller General, etc.

GAZETTE OF INDIA.

NOTICE.

The 12th October 1910.

From the 12th November next till further notice, the complete *Gazette of India* will be published at Calcutta. After the 5th November all notifications and other matter intended for publication in the *Gazette* should be addressed to the Publisher, 8, Hastings Street, Calcutta.

Attention is invited to the following Circular Memorandum of the Government of India, Home Department, of August 1901 :—

"It has been brought to the notice of this Department that matter for the *Gazette of India* is sometimes sent to the Press late on Friday evenings for publication in the next day's *Gazette*, and that this involves considerable inconvenience to the Press and expense to Government. In the Circular Memorandum of this Department, No. 777—79, dated 9th February 1870, the Government of India directed that all notifications or other matter intended for insertion in the *Gazette of India* should be delivered at the Press not later than 2 P.M. on Friday, and that any papers sent thereafter must be certified to be extremely urgent in order to ensure their appearance in the next day's *Gazette*. The undersigned is directed to request that these orders may be more strictly observed in future, and that Departments will refrain from sending to the Press as extremely urgent any papers which can without harm or inconvenience be held over for the next *Gazette*."

J. P. HEWETT,
Secretary to the Government of India.

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J. J. MEIKLE,
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GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

INVENTIONS and DESIGNS.

Calcutta, the 1st December 1910.

NOTIFICATIONS.

THE UNITED PROVINCES EXHIBITION.

Notification under sections 26 and 55 of the Inventions and Designs Act of 1888.

No. 2061-P.—Whereas the Inventions and Designs Act (V of 1888) amongst other things provides, by Section 26, that if an inventor, being the exhibitor of his invention at an industrial or international exhibition, certified as such by the Governor General in Council, causes an application for leave to file a specification of the invention to be delivered to or received by the Secretary within six months from the date of the admission of the invention into that exhibition, the invention shall not be deemed to have been publicly used, or made publicly known, within the meaning of this Part, by reason only of the invention having at any time after admission in the exhibition been publicly used or made publicly known.

And whereas the said Act further provides, by Section 55, that if the proprietor of a design exhibited at an industrial or international exhibition certified as such by the Governor General in Council, causes an application for an order for the registration of the design to be delivered to or received by the Secretary within six months from the date of the admission of the design into that exhibition the design shall not be deemed not to be a new and original design not previously published in British India within the meaning of Section 51 by reason only of the design having been exhibited at the exhibition.

The Governor General in Council is pleased to certify that the United Provinces Exhibition, 1910, at Allahabad is an Industrial Exhibition within the meaning, and for the purposes, of the Sections of the Act above cited

No. 2062-P.—APPLICATIONS in respect of the undermentioned inventions have been filed, under the provisions of the Inventions and Designs Act of 1888, in the office of the Secretary appointed under that Act during the week ending 28th November 1910:—

No. 598 of 1910.—Charles Wesley Gray, Civil Engineer, of Craven House, Kingsway, London, England. *Improvements in glazing bars or astragals for skylights, windows and the like.*

No. 599 of 1910.—Allen-Liversidge Portable Acetylene Company, Limited, manufacturers, of 106 Victoria street, Westminster, London, England. *Improvements in or relating to acetylene gas generators.*

No. 600 of 1910.—J. W. Ginder, assistant, Messrs. Martin and Co., of 76 Dhurrumtollah street, Calcutta. *An apparatus for securing railway carriage doors automatically.*

No. 601 of 1910.—Robert Speirs Dickie, works manager of the Indo-Burma Petroleum Co., Limited, and residing at Seikgyi Refinery, Hanthawaddy District, Burma. *Improvements in refining paraffin wax.*

No. 602 of 1910.—Johannes Von Riegen, superintendent, Marine engineer, of Victoria, in the colony of Victoria, in the colony of Hongkong. *Improvements in furnaces and more particularly to a combined grate and fire bridge construction.*

No. 603 of 1910.—Jogendra Nath Sanyal, government pensioner, Serampore, District Hughli. *A specific for removing, destroying and eradicating paint, varnish, enamel, electro-plating, etc., from wood, metals, glass, marble, etc,*

No. 604 of 1910.—Lucas Eustratio Ralli and Pandely Leonidas Argenti, carrying on business as merchants among other places at Bombay under the name and firm of Ralli Brothers, of 25, Finsbury Circus, London. *A self-feeding arrangement to be attached to Platts' Macarthy double roller cotton gins.*

No. 605 of 1910.—William James Tinline, engineer of Market street, Hastings, Hawke's Bay, in the dominion of New Zealand. *Improvements in means for, and mode of, sharpening and dressing parts of horse clipping and other machines.*

No. 606 of 1910.—Edmund Eaton, Engineer, of 5, Dowgate Hill, in the city of London, England. *Improvements in the treatment and process of solidification of tar.*

No. 607 of 1910.—Oswald Vernon Forbes, late officer in the Army, of Carlton House, 11 Regent street, in the county of London, England. *Improvements in the manufacture of detachable heels for boots, shoes, or the like.*

No. 608 of 1910.—Societe des Raccords et Fermetures Rapides "Dayol" and Joseph Marie Dayol, manufacturers and engineer respectively, both of Toulon in the Republic of France. *An arrangement applicable as a union or plug for connecting or closing pipes or tubes.*

No. 609 of 1910.—Emil Prein, technicist, of Hanover, 10 A Am Bokemahle, Germany. *Apparatus for laying down projecting fibres or yarn.*

No. 610 of 1910.—Robert Shedden Dobbie, engineer, of Saling, Albion road, Sutton, Surrey, England. *Improvements in and relating to the prevention of overcharge or over-discharge, or of both over-charge and over-discharge of secondary batteries.*

No. 611 of 1910.—George Johnston, engineer, of 140, West George street, in the city and county of Glasgow, Scotland. *Improvements in or relating to crushing or grinding auriferous quartz and other hard ores or substances.*

No. 612 of 1910.—George Johnston, engineer, of 140, West George street, in the city and county of Glasgow, Scotland. *Improvements in or relating to filtering apparatus.*

No. 613 of 1910.—Robert Cochran Dickson, engineer, of Demyat, San Sebastian, Colombo, Ceylon. *Improvements in and connected with liquid fuel furnaces which are particularly adapted for heating air but may be used for other purposes.*

No. 614 of 1910.—Muhammad Ziaullah Ghatala, *alias* Aziz Badsha, editor of "The Muhammadan," 26, Pycroft's road, Triplicane, Madras. *The cure of (1) bites by all venemous snakes and (2) Hydrophobia.*

No. 615 of 1910.—William Fisher, engineer, of North Tawton, Devonshire, England. *Improvements in and relating to rotary engines, pumps, air compressors and the like.*

No. 2063-P.—The under-mentioned design has been registered, under the provisions of the Inventions and Designs Act, 1888, in the office of the Secretary appointed under that Act, and copies have been sent to the Governments of Madras, Bombay, and Burma. This and other designs are open to public inspection, from 11 A.M. to 4 P.M., at the Secretary's office (Imperial Secretariat, Government Place, West), Calcutta, on payment of a fee of one rupee, and a certified copy of any one of them will be supplied on payment of the fixed expenses of copying :—

No. 14-D of 1910.—William Shorthouse, a member of the firm of the Midland Galvanized Hollowware Company, Limited, of the Midland Works, the Green, Darlaston, in the county of Stafford, England. *Bottom of a bucket.*

No. 2064-P.—SPECIFICATIONS of the undermentioned inventions have been filed, under the provisions of the Inventions and Designs Act of 1888, in the office of the Secretary appointed under that Act, and copies have been sent to the Governments of Madras, Bombay, and Burma and the Director of the Department of Land Records and Agriculture, United Provinces of Agra and Oudh. These and other specifications are open to public inspection from 11 A.M. to 4 P.M. daily, and Saturdays 11 A.M. to 1 P.M. at the Secretary's office, 2, Bankshall Street, Calcutta, on payment of a fee of one rupee, and a certified copy of any one of them will be supplied on payment of the fixed expenses of copying :—

No. 624 of 1909.—Rotary Ring Spinning Company, a corporation duly organized and existing under the laws of the State of Delaware, and having a regular place of business at 50, Congress Street, Boston, County of Suffolk, State of Massachusetts, U.S.A. *Spinning rings.* (Specification filed 15 November 1910.)

No. 3 of 1910.—Monotype Machine (Colonial Patents) Syndicate, Limited, 43 Fetter lane, London, E.C., England. *Improvements in or relating to moulds and mould adjusting mechanism for type-casting machines.* (Specification filed 24 September 1910.)

No. 133 of 1910.—Edward Brice Killen, Engineer, of 52, Queen Victoria street, London, England. *Improvements in wheels with detachable rims or tyres.* (Specification filed 20 September 1910.)

No. 177 of 1910.—Eugene Roberts, Engineer, and Angus Henderson Gibson, Engineer, citizens of the United States and residents of Lehi, in the county of Utah and state of Utah, United States of America *Improvements in centrifugal machines.* (Specification filed 16 November 1910.)

No. 192 of 1910.—Arnold Thornton Birkby and Frederick Ernest Birkby, card manufacturers, both of Woodfield Mills, Liversedge, in the county of York, England. *Improvements in or appertaining to pulleys for punkahs.* (Specification filed 15 November 1910.)

No. 193 of 1910.—George Whittaker Hargreaves, Robert Hargreaves and Albert Hargreaves, sheet metal workers, trading as George Hargreaves and Sons, of Brookhouse lane, Blackburn, in the county of Lancaster, England. *Improvements in appliances for collecting and removing dust from carding engines during the stripping and brushing operations.* (Specification filed 15 November 1910.)

No. 197 of 1910.—John Sinclair, marine engineer, of Engineers Club, Bombay, India. *Improvements in or connected with valves.* (Specification filed 19 November 1910).

No. 205 of 1910.—Robert John Caldwell, chemist, of Coventry House, Wilton Avenue Southampton, England, Fritz Pfleumer, engineer, of 31, St. James' New Cross, London, England, and Pfleumatic Syndicate Limited, manufacturers, of 82, Victoria street, Westminster, London, England. *An improved manufacture of filling or stuffing material* (Specification filed 19 November 1910).

No. 206 of 1910.—Robert John Caldwell, chemist, of Coventry House, Wilton Avenues Southampton, England, Fritz Pfleumer, engineer, of 31, St. James', New Cross, London, England, and Pfleumatic Syndicate Limited, manufacturers, of 82, Victoria street, Westminster, London, England. *Improvements in apparatus for use in the manufacture of elastic cellular, foamy or spongy material for filling tyres, cushions and the like.* (Specification filed 19 November 1910.)

No. 209 of 1910.—Thomas Henry Wheless, engineer of 2, Rector street, New York city, New York, United States of America. *Improvements in railways.* (Specification filed 19 November 1910.)

No. 361 of 1910.—Rahimtoola Ismail, lock and safe manufacturer, Tramba Kanta, Pydhowni, Bombay. *Improvements in lever locks.* (Specification filed 25 October 1910.)

No. 447 of 1910.—General Electric Company, a corporation organized and existing under the laws of the State of New York, United States of America, and having a place of business in the city of Schenectady, county of Schenectady, in said state of New York. *Improvements in tungsten and the manufacture thereof.* (Specification filed 15 November 1910.)

No. 476 of 1910.—Conrad Varley Greenwood, Herbert Birtwhistle Stocks, and Henry Graham White, manager and chemist, respectively, all of the Works, Hootan by Chester, in the County of Chester in the Kingdom of England. *Improvements in or relating to the manufacture of gum tragasol.* (Specification filed 15 November 1910.)

No. 497 of 1910.—James Nelson Wood, mechanical engineer, of 1533, Bolton Street Baltimore, in the State of Maryland, United States of America. *An improved baling press.* (Specification filed 16 November 1910.)

No. 2065-*P*.—THE fees prescribed in the fourth schedule to the Inventions and Designs Act of 1888 have been paid for the continuance of exclusive privilege in respect of the undermentioned inventions for the periods shown against each:—

No. 333 of 1898.—John Pettigrew. *Improvements in hinges or like mechanism for controlling the action of fall down doors.* (From 26 November 1910 to 26 November 1911.)

No. 226 of 1901.—The Linotype Company, Limited. *Improvements in moulds for casting lines of type.* (From 10 January 1911 to 10 January 1912.)

No. 309 of 1901.—Gustave Louis Mouchel. *Improvements in and relating to piles, columns and analogous structures.* (From 11 December 1910 to 11 December 1911.

No. 32 of 1903.—George Harrison Sheffield and James Denis Twinberrow. *Improvements in the construction of railway freight wagons and in the bogies employed therewith.* (From 13 January 1911 to 13 January 1912.)

No. 351 of 1903.—John William Cook. *Improved knotter for the use of winders, weavers, reelers and others for attaching two ends of thread or the like together.* (From 3 December 1910 to 3 December 1911.)

No. 26 of 1904.—Kristian Birkeland and Samuel Eyde. *Improved method of producing powerful chemical re-action in gases or gas mixtures, and apparatus therefor.* (From 18 January 1911 to 18 January 1912.)

No. 415 of 1904.—James Fiddes and John Fordyce Watt. *Improvements in automatic fire extinguishing appliances.* (From 26 November 1910 to 26 November 1911.)

No. 497 of 1904.—William Dieselhorst and Arthur William Martin. *Improved manufacture of electric cables.* (From 4 January 1911 to 4 January 1912.)

No. 513 of 1904.—Friederich Godfried Carl Rincker and Louis Wolter. *Improvements relating to the production of oil gas.* (From 13 March 1911 to 13 March 1912.)

No. 224 of 1905.—La Société Générale De Soie Artificielle Par Le Procédé Viscose. *Improvements in apparatus for use in twisting fibres or filaments and putting them into coil form.* (From 4 December 1910 to 4 December 1911.)

No. 325 of 1905.—James Holden. *Improvements in stays for steam and other boilers.* (From 14 February 1911 to 14 February 1912.)

No. 481 of 1905.—Clarke Chapman and Company, Limited and William Armstrong Woodeson. *Improvements in steam boilers.* (From 24 January 1911 to 24 January 1912.)

No. 473 of 1905.—William Kennedy. *Improvements in apparatus for bending metal tubes, rods or the like.* (From 19 December 1910 to 19 December 1911.)

No. 143 of 1906.—Frederic Fowler Farlow. *An improved automatic fire alarm for ships, buildings and the like.* (From 23 October 1910 to 23 October 1911.)

No. 286 of 1906.—Willlam Henry Lock. *Improvements in apparatus for casting curved stereotypes.* (From 17 January 1911 to 17 January 1912.)

No. 291 of 1906.—Ernst August Gieseler. *Improvements in gravity filters.* (From 9 January 1911 to 9 January 1912.)

No. 301 of 1906.—Jokichi Takamine. *Diastatic substance and method of producing same.* (From 22 January 1911 to January 1912).

No. 2066-P.—WHEREAS the inventors of the undermentioned inventions have respectively failed to pay, within the time limited in that behalf by the fourth schedule to the Inventions and Designs Act of 1888, the fees hereinafter respectively mentioned, it is hereby notified that under the provisions of section 8, sub-section (2), of the said Act the exclusive privilege of making, selling and using the said inventions in British India and of authorising others so to do has ceased :—

No. 21 of 1906.—Rudolf Braun. *Improvements in operating rotating apparatus by means of single phase commutator electric motors supplied from polyphase circuits* (Specification filed 20 August 1906.)

No. 30 of 1906.—Akshaya Kumar Majumdar *Tarunia or a form of wood-substitute.* (Specification filed 24 August 1906.)

No. 48 of 1906.—Fred Ogden. *Improved method of and means for lubricating rotary shafts.* (Specification filed 24 August 1906.)

No. 49 of 1906.—Henry Beatson Morrison. *Improvements in the heels of boots and shoes.* (Specification filed 24 August 1906.)

No. 52 of 1906.—John Joseph Hendler. *Acetylene generator.* (Specification filed 25 August 1906.)

No. 57 of 1906.—Raoji Bhailal Patel. *Automatic fly-shuttle arrangement for hand-looms.* (Specification filed 24 August 1906.)

No. 74 of 1906.—James Snodgrass. *Improvements in means for precipitating gold and silver from cyanide or other solutions.* (Specification filed 24 August 1906.)

No. 79 of 1906.—William Hadley Wood. *Improvements in railway brakes.* (Specification filed 25 August 1906.)

No. 354 of 1906.—Maude Nicholas. *Improved construction of apparatus for cleaning, dyeing or otherwise treating wool, textile fabrics, and other like material.* (Specification filed 23 August 1906.)

Fee in respect of the continuance of an exclusive privilege—

4 (*a*) After the filing of the specification and before the expiration of the fourth year from the date of the filing thereof—

The sum of R50 for each of the above inventions.

No. 32 of 1905.—James Ormond. *An improved bag spreader for tea packing machines and the like.* (Specification filed 25 August 1905.)

No. 328 of 1905.—Willibald Liedke and Otto Rabenhorst. *Improvements in or relating to incandescent vapour lamps.* (Specification filed 24 August 1905.)

Fee in respect of the continuance of an exclusive privilege—

4 (*b*) After the expiration of the fourth year and before the expiration of the fifth year from the date of the filing of the specification—

The sum of R50 for each of the above inventions.

No. 194 of 1898.—Samuel Cleland Davidson. *Improvements in apparatus for drying tea or tobacco leaves, coffee, fruits, cloths and other substances, and for the baking of tobacco stems and other substances.* (Specification filed 25 August 1898.)

Fee in respect of the continuance of an exclusive privilege—

4 (*i*) After the expiration of the eleventh year and before the expiration of the twelfth year from the date of the filing of the specification.

The sum of R50 for the above invention.

NOTICES.

THE PATENT OFFICE.

2, BANKSHALL STREET, CALCUTTA.

Public room open, 11 A.M. to 4 P.M., Saturdays 11 A.M. to 1 P.M.

1. *All communications* relating to applications for leave to file specifications and for registration of designs under the Inventions and Designs Act (V of 1888), or in continuation of such applications should be addressed to the Patents Secretary, 2, Bankshall Street. Calcutta. Directions for inventors and others are given in the Act Manual (Price R1 or 1*s.* 6*d.*).

2. *Fees* payable under the fourth and sixth schedules must be received in full and in cash at the office within the times allowed by the Act. The office cannot be responsible for any delay attending the collection of cash on cheques. Cheques not payable at Calcutta are subject to commission. Preferably fees should be sent by money order payable at Calcutta to the Patents Secretary.

3. *Trade marks* are not registered and *medicines* are not patented under the Inventions and Designs Act.

4. *Applications* made under the Act are placed for inspection in the public room for 10 days from the date of the *Gazette of India* in which their filing has been notified.

5. *Specifications* of inventions which have been notified as filed in the *Gazette of India* may be inspected on payment of a fee of one rupee at—

Calcutta—Patent Office, 2, Bankshall Street.

Madras—General Record Department, Fort St. George.

Bombay—Record Office.

Rangoon—Record Room of the Revenue Secretary to the Government.

Lucknow—Office of the Director of the Department of Land Records and Agriculture.

6. *Publications* on sale at the Patent Office:—

	Price. R a.
(*a*) Act Manual, comprising the Inventions and Designs Act (V of 1888) and an explanatory memorandum and directions for the guidance of parties applying for the protection of inventions or designs	1 0
(*b*) Bill to amend the Inventions and Designs Act	1 0
(*c*) Weekly Notifications (extract from the *Gazette of India*)	0 1
Annual subscription with postage	3 0
(*d*) Inventions and Designs for the year 1905	1 0
" " " " 1906	1 0
" " " " 1907	1 0
" " " " 1908	1 0
" " " " 1909	1 0
" " " January to March 1910	0 8
" " " April to June 1910	0 8
(*e*) Inventions (consolidated subject-matter index, 1900—1908, and chronological list, 1900—1904)	2 0

H. G. GRAVES,
Secretary under the Inventions and Designs Act, V of 1888.

BOARD OF EXAMINERS.

NOTICES.

Specimens of Persian Manuscripts for the use of candidates for the Degree of Honour and High Proficiency examinations in Persian, published in facsimile by the Board of Examiners, Fort William, under the authority of the Government of India. Price R6. Forwarded V. P. P., on application to the Secretary, Board of Examiners, 4, Park Street.

For the convenience of Civil and Military officers desirous of appearing for examination in oriental languages, the Board of Examiners publish annually a collection of specimen papers set for the examination held by them.* Collections of papers for 1902-1903, 1903-1904, 1904-1905, 1905-1906, 1906-1907, 1907-1908 and 1908-1909 are ready for sale. Price R3 per copy, and may be obtained on application to the Secretary, Board of Examiners, 4, Park Street.

Diwan-i-Sarkhush (official edition), one of the books recommended for the High Proficiency examinations in Persian; obtainable from Board of Examiners' office, price R3 per copy.

The Kalam-i-Urdu, the text-book for the new Proficiency Standard in Urdu, is now ready for issue, price R2-12.

Qaāni, one of the books recommended for the Degree of Honour examination in Persian; obtainable from the Board of Examiners' office, price R7-8 per copy.

"Dewan-i-Andalib," one of the books recommended for the High Proficiency in Persian, is obtainable from the Board of Examiners' office, price R4 per copy.

Glossary to Ar-Rauzatuz-Zakiyah, the new text-book for the Higher Standard Examination in Arabic, price R6-4 per copy, is also obtainable from this office.

"Nazm-i-Muntakhab," one of the new text-books prescribed for the Degree of Honour examination in Urdu, is obtainable from the Board of Examiners' office, price R5 per copy.

"Siyahat-Nama-i Ibrahim Beg," one of the books recommended for the High Proficiency examination in Persian, is obtainable from the office of the Board of Examiners, 20, Park Street, Calcutta, price R5 per copy.

* *N.B.*—The languages in which specimen papers are published are:—
Arabic, Bengali, Hindi, Persian, Sanskrit, Urdu.

W. G. GREY, Major,
Offg. Secretary, Board of Examiners.

CINCHONA FEBRIFUGE.

Cinchona Febrifuge can be purchased for cash only by Government officers and the general public from the Superintendent, Royal Botanic Garden, Calcutta.

The rates from 1st April 1910 are :—

	Wholesale rate For 6 lbs. or more in one *delivery*.			*Retail rate* For any quantity below *6 lbs. in one delivery*.		
	R	a.	p.	R	a.	p.
16-oz. tins	5	0	0	6	0	0
8 " "	2	8	0	3	0	0
4 " "	1	4	0	1	8	0

Carriage or postage extra. Cinchona Febrifuge is sold also by the principal Druggists in Calcutta.

SUPPLY AND TRANSPORT CORPS.

Notice No. 2.

Sealed Tenders will be received and opened at Quetta by the Station Supply Officer, IV (Quetta) Division, Quetta, at 12 noon on the dates specified against each for the following supplies for daily issue to the Nos. 2 and 5 Mountain Batteries proceeding on the line of march from Hurnai to Jutogh.

The probable requirements and duration of march will be as under :—

Articles.	Maximum.	Minimum.	Earnest money.	Date of opening of tenders.	Period.
	lbs.	lbs.	R		
Beef	23,000	17,400	100	1-12-10	From 27th January 1911 to 31st March 1911.
Mutton	4,000	2,400			
Firewood for ration	73,000	55,000			
" " bakery	70,000	52,300			
Flour, 1st sort	34,000	25,500			
Rice for B. T.	2,600	2,700			
Salt for ration	1,500	1,000			
Potatoes	18,400	13,800			
Vegetable, green	5,200	4,600			
Oil, kerosine, glls.	530	400	700	7-12-10	
Straw for men's bedding	120,000	90,000			
Gram crushed	200,000	117,000			
Barley "	300,000	230,000			
Bhoosa, white, clean or hay	1,400,000	1,014,000			
Green grass	1,040,000	780,000			
Salt for animals	3,600	2,700			
Bran	30,000	20,000			

2. Tender Forms with schedule of rates and conditions on payment of R1 per each set, and any other information as regards names of stages, dates of arrival at each stage, etc., can be obtained on application to the undersigned up to 4 P.M. on the dates previous to the receipt of tenders, Sundays and holidays excepted.

H. F. E. MACMAHON, Captain,
Station Supply Officer, Quetta.

HEAD QUARTERS, IV (QUETTA) DIVISION,
QUETTA INFANTRY BRIGADE,
Quetta, the 26th October 1910.

THOMASON CIVIL ENGINEERING COLLEGE, ROORKEE.

NOTIFICATION.

Roorkee, the 10th June 1908.

A Registry Office for men of the undermentioned grades is kept up by the Principal, Thomason College, Roorkee. Officers and employers of labour requiring men are requested to apply to the Principal:—

1. Engineers.
2. Overseers.
3. Sub-Overseers.
4. Draftsmen and Surveyors.
5. Motor Car Drivers.
6. Engine Drivers.
7. Men trained in—

   (*a*) Photo-Mechanical and Lithographic Work.
   (*b*) Workshops (both Electrical and Mechanical sides).

E. ATKINSON, Major, R.E.,
Principal, Thomason College, Roorkee.

NOTICE No. 20.

Sealed tenders for the supply of undermentioned supplies will be received and opened at Karachi at 12 noon on Wednesday, the 14th December 1910, by the Divisional Contract Officer, 4th (Quetta) Division.

NAME OF ARTICLES.	Where required.	Approximate requirement.	Earnest money deposit.
From 1st April	1911, to 31st March 1912.	lbs.	
Meat fresh: Beef	Karachi	450,000	1,150
Meat fresh: Mutton	Karachi	90,000	
Meat fresh: Beef	Hyderabad	215,000	510
Meat fresh: Mutton	Hyderabad	33,000	
Potatoes, fresh and of regulation sizes	Karachi	450,000	375
Ditto ditto	Hyderabad	210,000	200

2. Further particulars and forms of tenders with schedules of conditions on payment of rupee one per set, can be obtained on application to the Station Supply Officer, Karachi, and the Divisional Contract Officer, 4th (Quetta) Division, Quetta.

P. C. SAUNDERS,
Offg. Divisional Contract Officer,
4th (Quetta) Division.

QUETTA:
The 7th November 1910.

NOTICE.

Sealed Tenders for the supply of petty stores to the Rifle Factory, Ishapore, from 1st April 1911 to 31st March 1912 will be received by the undersigned up to 4 P.M. on Monday, the 5th December, and opened at 2-30 P.M. on Wednesday, the 7th December 1910.

2. Forms of Tenders and Schedule of stores at R1 per set can be had on application.

3. Samples of articles to be supplied can be inspected at the Factory Stores Department any day (Sundays and holidays excepted).

H. B. FOOTE, Major, R.A.,
Superintendent.

ISHAPORE;
The 15th November 1910.

BANK OF BENGAL.

Statement of the Affairs of the Bank of Bengal for the week ending 29th November 1910.

LIABILITIES.	R	a.	p.	R	a.	p.
Capital paid up				2,00,00,000	0	0
Reserve Fund				1,73,00,000	0	0
Public Deposits at Head Office	80,22,285	15	2	1,80,53,004	5	4
Public Deposits at Branches	1,00,30,718	6	2			
Other Deposits at Head Office and Branches				16,16,25,573	1	4
Bank Post Bills, etc.				10,55,439	1	5
Sundries				17,66,837	7	3
RUPEES				21,98,00,853	15	4

ASSETS.	R	a.	p.	R	a.	p.
Government Securities				2,64,58,855	0	0
Other authorized Investments				99,38,616	0	0
Loans on Government and other authorized Securities				3,88,78,676	11	4
Accounts of Credit on Government and other authorized Securities				5,21,50,216	1	2
Bills discounted and purchased				3,24,67,836	7	1
Balances with other Banks				21,61,380	2	4
Bullion				...		
Dead Stock				21,72,859	14	9
Stamps				11,570	4	2
Sundries				63,060	2	6
				16,43,03,070	11	4
Cash and Currency Notes at Head Office	1,86,80,893	13	5	5,54,97,783	4	0
Cash and Currency Notes at Branches	3,68,16,889	6	7			
RUPEES				21,98,00,853	15	4

* Includes Sovs. & ½ Sovs., value R2,92,065 0 0
† Do. do do. R4,15,207 8 0

R7,07,272 8 0

By order of the Directors,

BANK OF BENGAL;
Calcutta, 1st December 1910.

D. S. McCLURE,
Offg. Chief Accountant.

L. G. DUNBAR
Secretary and Treasurer.

Rate for Demand Loans 7 per cent.
Percentage 30·40.

SULPHATE OF QUININE AND SULPHATE OF CINCHONIDINE.

Manufactured at the Bengal Government Cinchona Plantation.

These articles are guaranteed to be free from wilful admixture with other Cinchona alkaloids. Quinine can be purchased by Government officers, District and Local Boards. It can also be purchased by Missionaries for *bonâ fide* public purposes. Otherwise it is not sold to private persons or firms. Cinchonidine is for sale to Government officers and to dealers. Both Quinine and Cinchonidine are for sale for cash only and may be obtained from the Superintendent, Royal Botanic Garden, Sibpur, near Calcutta.

The rates for both drugs from 1st April 1910 are as follows :—

SULPHATE OF QUININE.

	R
For quantities of not less than 6 lbs. in one delivery	8-8 per lb.
For any less quantity than 6 lbs. in one delivery	11-8 "

SULPHATE OF CINCHONIDINE.

	R
For quantities of not less than 6 lbs. in one delivery	8 per lb.
For any less quantity than 6 lbs. in one delivery	11 "

Quinine is sold in 1 oz., ¼ lb., ½ lb., 1 lb. and 4 lb. tins.
Cinchonidine is sold in ¼ lb., ½ lb. and 1 lb. tins.

Carriage or postage is in addition to the above prices in every case.

DEPARTMENT OF MINES IN INDIA.

NOTICE.

INDIAN MINES ACT, 1901.

Dhanbaid, 21st November 1910.

An examination for first and second class coal mine managers' certificates of competency under the rules applying to coal mines will be held at the office of the Mines Department at Dhanbaid on the 23rd and 24th February 1911.

Only persons who have had practical experience in coal mines are eligible to sit for the examination. Necessary instructions will be supplied to intending candidates on application to the undersigned and on their stating their experience.

Applications received after the 11th February 1911 will not be considered.

G. F. ADAMS,
Offg. Chief Inspector of Mines in India.

IN THE HIGH COURT OF JUDICATURE AT MADRAS.

IN INSOLVENCY.

Notice is hereby given that orders have been made by this Court adjudging the person hereunder mentioned Insolvent and vesting the estates and effects of the said Insolvent in J. R. B. Branson, Esq., the Official Assignee of this Court; and all persons indebted to the said Insolvent, or who have any of his estates and effects, are hereby required forthwith to pay or deliver the same to the said Official Assignee:—

No. of Petition.	Date of Pre entation by creditors.	Name, Address and Description of Insolvent.	Date of Adjudication.	Date of Hearing.
110 of 1910	18th May 1910.	A. S. Mahomed Oosman Saib of A. S. Mahomed Oosman Saib & Co., residing at Periamet, Madras.	25th May 1910.	30th January 1911.

J. R. ATKINSON,
Deputy Registrar.

INSOLVENCY OFFICE, MADRAS;
The 29th November 1910.

IN THE HIGH COURT OF BOMBAY.

In Insolvency.

NO. 437 OF 1910.

Re Mahomed Sirdar-ud-din Khan Mahomed Nawaz Jung, of Bombay, Mahomedan inhabitant residing at Taj Mahal Hotel, an Insolvent.

Notice is hereby given that the order of adjudication made herein on the 14th day of November 1910 against the abovenamed Insolvent has been this day annulled.

Dated this 23rd day of November 1910.

R. B. PATEL,
Chief Clerk.

CHIEF CLERK'S OFFICE, HIGH COURT,
Fort, Bombay, the 24th day of November 1910.

IN THE COURT OF THE DISTRICT JUDGE, CIVIL AND MILITARY STATION, BANGALORE.

INSOLVENCY PETITION NO. 9 OF 1910.

A. C. Seymour . . . . . *Petitioner.*

1, Abraham & Co., 2, Daily Post Press, 3, M. H. Dhadoo Sáib, 4, B. N. Krishnasawmy Chetty, 5, V. Singaraveloo Chetty, 6, Spencer & Co., Ld., and 7, B. Samboomall Gangaram. . *Respondents.*

Notice is hereby given, under section 16, clause 7 of Act III of 1907, that A. C. Seymour, residing at No. 5, Curley Street, Richmond Town, Bangalore, applied to this Court for being declared an insolvent on 10th February 1910 and he was adjudged an insolvent accordingly by this Court on 5th September 1910.

A. RAMAYA PUNJA,
District Judge.

DATED BANGALORE;
The 12th November 1910.

IN THE COURT OF THE DISTRICT JUDGE, CIVIL AND MILITARY STATION, BANGALORE.

INSOLVENCY PETITION No. 39 of 1910.

Syed Abdul Satar Saib residing in Noah Street, Blackpully, Civil and Military Station, Bangalore . . . . *Petitioner.*

B. M. Abdul Aziz Saib and others . . . . . *Creditors.*

Notice, under clause 2 of section 12 of Act III of 1907, is hereby given that the above named petitioner has applied to this Court for being declared an insolvent and that his application is posted to 30th November 1910 for hearing.

Any creditor wishing to oppose the same may appear before this Court either in person or by pleader on the said date.

A. RAMAYA PUNJA,
District Judge.

BANGALORE;
The 18th November 1910.

IN THE CHIEF COURT OF LOWER BURMA.
Insolvency Jurisdiction.

CASE NO. 55 OF 1910.

In the matter of Badoo Sahib residing in 31st Street, Rangoon, Insolvent.

Notice is hereby given that on a petition for the benefit of the Presidency-Towns Insolvency Act, 1909, presented by Badoo Sahib of 31st Street, Rangoon, on the 23rd day of November 1910 an order of adjudication of insolvency was made by the Chief Court of Lower Burma on the same day against the said Badoo Sahib.

J. HORMASJI,
Registrar.

RANGOON;
The 23rd day of November 1910.

HIGH COURT—ORIGINAL SIDE.

NOTIFICATION.

Calcutta, the 28th November 1910.

Mr. James Herbert Hechle, Master and Official Referee of the High Court, Original Side, Calcutta, has been granted privilege leave for three months, *viz.*, two months and 20 days under Articles 272 and 274 and the remaining period under Article 271 of the Civil Service Regulations, with effect from 4th November 1910.

By order,
W. R. FINK,
Registrar.

SURVEY OF INDIA—TRIGONOMETRICAL BRANCH.

NOTIFICATION.

Dehra Dun, the 28th November 1910.

No. 96.—Mr. C. H. Tresham, Sub-Assistant Superintendent, 1st grade, Survey of India, is granted privilege leave for 3 months, under the provisions of Article 260 of the Civil Service Regulations, with effect from the forenoon of the 2nd January 1911.

J. ECCLES, M.A.,
Offg. Superintendent, Trigonometrical Surveys.

DIRECTOR-GENERAL, INDIAN MEDICAL SERVICE.

NOTIFICATIONS.

Simla, the 22nd November 1910.

No. 155.—The services of No. 1192, 1st Class Sub-Assistant Surgeon T. Ramunani, Indian Subordinate Medical Department are replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India, with effect from the 4th August 1910.

The 23rd November 1910.

No. 156.—No. 959, 1st Class Sub-Assistant Surgeon Roshan Lal, Indian Subordinate Medical Department. has been granted six months' leave on medical certificate with effect from the 1st October 1910. The first twenty-seven days' leave will be on full pay. His services will, on expiry of his leave, be replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India.

No. 157.—The services of 2nd Class Assistant Surgeon L. P. Kenyon, Indian Subordinate Medical Department, are placed at the disposal of the Government of Bengal for Civil employment in that Province, with effect from the 4th November 1910.

No. 158.—The services of 3rd Class Assistant Surgeon J. H. A. Donnelland, Indian Subordinate Medical Department, are replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India, with effect from the 28th October 1910.

The 24th November 1910.

No. 159.—Fourth Class Assistant Surgeon J. F. Holmes, Indian Subordinate Medical Department Bengal, is granted, under the terms of paragraph 223, Army Regulations, India, Volume II, privilege leave for 60 days combined with 12 months' furlough out of India, with effect from the 15th December 1910 or date of availing himself of the same.

No. 160.—The services of No. 794, 1st Class Sub-Assistant Surgeon Ruldu Ram, Indian Subordinate Medical Department are replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India, on expiry of the six months' leave granted to him in this office Notification. No. 47, dated the 25th May 1910.

B. G. SETON, Major, I.M.S.,
for Director-General, Indian Medical Service

THE HON'BLE THE CHIEF COMMISSIONER OF BRITISH BALUCHISTAN.

NOTIFICATIONS.

Quetta, the 22nd November 1910.

No. 4089-R.—In exercise of the powers conferred by clauses (1) and (3), Section 2, and by clause (1), Section 3, of the Indian Census Act, 1910 (XVI of 1910), the Hon'ble the Chief Commissioner in British Baluchistan is pleased to issue the following orders :—

(*a*) The persons detailed below are hereby appointed, in virtue of their offices, Census Officers under Section 2 of the Act, for the local areas entered opposite their

names and the power of appointing other Census Officers within the aforesaid local areas is hereby delegated to them :—

(1) The Superintendent of Census Operations in Baluchistan—For the whole of British Baluchistan.

(2) All Duputy Commissioners—For their respective charges.

(3) The Census Extra Assistant Commissioner in Baluchistan—For the whole of British Baluchistan.

(4) All Assistant Commissioners, Extra Assistant Commissioners and Native Assistants to the Honourable the Agent to the Governor General in Baluchistan in executive charge of Sub-Divisions of Districts—For such areas in their respective sub-divisions as are in British Baluchistan.

(5) The District Traffic Superintendent, North Western State Railway, Quetta—For the premises occupied by the Sindh-Pishin and Mushkaf-Bolan State Railway in British Baluchistan.

(6) The Officers in command of Military Stations and outposts—For all such areas within their respective Military Stations or outposts as are within purely regimental limits.

(7) The Officers in command of Troops on the march in British Baluchistan, but not travelling on the Railway—For all areas occupied by such troops with their followers.

(*b*) Under Section 3 (1) of the Act, the persons mentioned above are hereby authorised to sign declarations of appointments for all classes of Census Officers ; also the following officers for the classes of Census Officers entered against their respective names within the local areas for which they themselves are Census Officers :—

(1) All Tahsildars—For Supervisors and Enumerators.

(2) All Naib Tahsildars—For Enumerators.

No. 4090-*R*.—In exercise of the powers conferred by Section 14 of the Indian Census Act, 1910 (XVI of 1910), the Hon'ble the Chief Commissioner in British Baluchistan is pleased to direct that the expenses incurred on :—

(1) House numbering

(2) Lights, ink and stationery, and

(3) Binding Schedules

shall be borne by the Local, Municipal or Bazar Fund constituted for, and on behalf of, the area within which such expenses were incurred.

The 26th November 1910.

No. 4189.—In exercise of the powers conferred on him by section 3 (1) of the British Baluchistan Bazar Regulation 1910, the Hon'ble the Chief Commissioner of British Baluchistan is pleased to declare the town of Sibi, whereof the limits are defined in the Schedule annexed, together with the villages of Kurk, Gulushahr and Khajjak thereunto adjoining, to be a bazar for the purposes of the said Regulation :—

SCHEDULE.

North.—From boundary pillar No. 1 situated on the Railway line between the telegraph poles Nos. 453-7 and 453-8 up to pillar No. 5.

East.—From pillar No. 5 which is situated on the Safi Nallah up to pillar No. 32, close to the bridge on the Mall Road, where it crosses the Murghzani Nallah.

South.—From pillar No. 32 up to Thul Sadik *viz.*, pillar No. 33 on the Sibi Mithri Road.

West.—From pillar No. 35 to pillar No. 1. Both these pillars are situated on the Railway line.

By order,

A. N. L. CATER,

Secretary to the Chief Commissioner.

THE HON'BLE THE AGENT TO THE GOVERNOR GENERAL IN BALUCHISTAN.

NOTIFICATIONS.

Quetta, the 22nd November 1910.

No. 4091-*R*.—In exercise of the powers conferred by clauses (1) and (3), Section 2, and by clause (1), Section 3, of the Indian Census Act, 1910 (Act XVI of 1910), as applied to the territories administered by the Honourable the Agent to the Governor General in Baluchistan as such Agent, the Hon'ble the Agent to the Governor General is pleased to issue the following orders :—

(*a*) The persons detailed below are hereby appointed, in virtue of their offices, Census Officers under Section 2 of the Act, for the local areas entered opposite their names, and the power of appointing other Census Officers within the aforesaid local areas is hereby delegated to them :—

(1) The Superintendent of Census Operations in Baluchistan—For the whole Agency.

(2) All Political Agents—For their respective charges.

(3) The Census Extra Assistant Commissioner in Baluchistan—For the whole Agency.

(4) The Census Native Assistant in Baluchistan—For the whole Agency.

(5) All Assistant Political Agents, Extra Assistant Commissioners and Native Assistants to the Hon'ble the Agent to the Governor General in Baluchistan in executive charge of Sub-Divisions of districts—For all Agency Territories in such Sub-Divisions.

(6) The Extra Assistant Commissioner, Quetta—For the Quetta Municipality and suburbs.

(7) The District Traffic Superintendent, Noth Western State Railway, Quetta—For the premises occupied by the Sind-Pishin, Mushkaf-Bolan and Quetta-Nushki State Railways in the Agency Territories.

(8) The Officers in command of Military Cantonments, Stations and outposts—For all such areas in their respective Cantonments, Stations or outposts as are within purely regimental limits.

(9) The Officers in command of Troops on the march in Agency Territories but not travelling on the Railway—For all areas occupied by such troops with their followers.

(10) All Cantonment Magistrates—For all areas in which they respectively exercise the powers of Cantonment Magistrates.

(*b*) Under Section 3 (1) of the Act, the persons mentioned above are hereby authorised to sign declarations of appointments for all classes of Census Officers ; also the following officers for the classes of Census Officers entered against their respective names within the local areas for which they themselves are Census Officers :—

(1) All Tahsildars and Naib Tahsildars in independent charge of Sub-Tahsils—For Supervisors and Enumerators.

(2) All Naib Tahsildars—For Enumerators.

No. 4092-*R*.—In exercise of the powers conferred by Section 14 of the Indian Census Act, 1910 (XVI of 1910), as applied to the territories administered by the Honourable the Agent to the Governor General in Baluchistan as such Agent, the Honourable the Agent to the Governor General is pleased to direct that the expenses incurred on :—

(1) House numbering

(2) Lights, ink and stationery, and

(3) Binding Schedules

shall be borne by the Local, Municipal or Bazar Fund constituted for, and on behalf of, the area within which such expenses were incurred.

The 25th November 1910.

No. 4139.—Whereas it appears to the Honourable the Agent to the Governor General in Baluchistan that land is required by Government for a public purpose, namely, for the

erection of a latrine, it is hereby declared that the undermentioned land is required for the said purpose.

District.	Tahsil.	Mauza.	Area in acres.			Direction.	Boundaries.	Place where the plan may be inspected.
			Permanent.	Temporary.	Total.			
Quetta-Pishin.	Quetta .	Killa Durrani.	S. ft. 3,530= Poles 12 and S. ft. 263.	...	S. ft. 3,530= Poles 12 and S. ft. 263.	North .	Toghi road .	Municipal office, Quetta.
						South .	M. Muhammad Ismail's property.	
						West .	Ditto.	
						East .	Hassan Ally's land.	

This declaration is made under the provisions of section 6 of Act I of 1894, and under section 7 of the said Act the Political Agent, Quetta, is hereby directed to take order for the acquisition of the land specified above.

By order,

A. N. L. CATER,

Assistant to the Agent to the Governor General.

THE HON'BLE THE RESIDENT IN MYSORE.

NOTIFICATION.

Bangalore, the 24th November 1910.

No. 83.—Under the provisions of Section 13 of the Bangalore Municipal Law, 1897, the Honourable the Resident in Mysore is pleased to notify that the following gentlemen have been elected Municipal Commissioners for the Civil and Military Station of Bangalore :—

To represent Europeans and Eurasians.

No. 1 Division . . . Dr. P. A. Winckler, L.R.C.P. & S., Ed. L.F.P. & S., Gl.
" 2 " . . . A. H. Prime, Esquire.
" 3 " . . . John Armstrong, Esquire.
" 4 " . . . Walter Abraham, Esquire.
" 5 " . . . C. Haudin, Esquire.
" 6 " . . . R. W. Simpson, Esquire.

To represent Hindus and others.

No. 1 Division . . . M. R. Ry. V. Masilamani Chettyar Avergal.
" 2 " . . . M. R. Ry. B. V. Venkatasawmy Naidu Garu.
" 3 " . . . Rao Bahadur B. P. Annasawmy Mudaliar Avergal.
M. R. Ry. T. P. Neelakanta Mudaliar Avergal.
" 4 " . . . M. R. Ry. A. M. Sundara Moorthy Mudaliar Avergal.
M. R. Ry. A. R. Chelvaraya Mudaliar Avergal.
" 5 " . . . M. R. Ry. C. N. Suryanarayana Rau Garu.
" 6 " . . . M. R. Ry. M. V. Coopoosawmy Chettyar Avergal.

To represent Mahomedans.

No. 2 Division . . . Aga Abbas Ali Saib.
" 3 " . . . Ahmed Sait Saib.
" 4 " . . . N. M. Mahomed Yacub Saib.

P. B. WARBURTON,

First Assistant Resident.

TO CONTRACTORS.

Sealed tenders for the supply of Miscellaneous Stores, *i.e.*, Cordage, Cloth, Soap, soft, Timber and other stores from 1st April 1911 to 31st March 1912 will be received by the Superintendent, Ammunition Factory, Dum-Dum, up to 4 P.M. on the 16th December 1910 for consideration of the Director of Ordnance Factories who does not bind himself to accept the lowest or any tender.

2. Forms of "Tender" and "Schedule" of the Stores, for the supply of which tenders are invited, are obtainable on payment of R1 per set on application in writing, and sample of the article to be supplied can be inspected at the Factory, and all further information obtained any day (Sundays and holidays excepted) between the hours of 10 A.M. and 2 P.M. by all who have purchased the forms.

3. Deposit of earnest money at 2 per cent., on the value of stores tendered for, must accompany tenders.

M. WALKER, Lieutenant-Colonel, R.A.,
Superintendent.

AMMUNITION FACTORY OFFICE,
Dum-Dum, 26th November 1910.

Notice No. C-8—7866.

Sealed tenders for the supply of firewood for ration and bakery for British Troops at all Military Stations in the 8th (Lucknow) Division, and for charcoal at all the stations in the Presidency Brigade from 1st April 1911 to 31st March 1912 will be received by the Divisional Supply and Transport Officer, 8th (Lucknow) Division, Lucknow, up to 12 noon on the 16th, 18th, and 20th January 1911 respectively.

2. Further particulars, forms of tenders and schedules are obtainable on application in writing to the above officer up to 7th January 1911 on payment of one rupee for each set of forms. No tenders will be received except on forms issued from this office.

H. W. W. BROOKE, Major,
for Divisional Supply and Transport Officer,
8th (Lucknow) Division.

DIVISIONAL SUPPLY AND TRANSPORT OFFICE,
8TH (LUCKNOW) DIVISION;
Lucknow, the 1st December 1910.

SUPPLY AND TRANSPORT CORPS. NOTICE No. 24.

The Divisional Contract Officer, 4th (Quetta) Division, Quetta, will receive and open tenders at 12 noon on Monday, the 19th December 1910, at Quetta for the supply of fresh meat from 1st April 1911 to 31st March 1912.

Beef.	Mutton.	Earnest money deposit.
lbs.	lbs.	Rs.
1,400,000	250,000	3,850

2. Further particulars and forms of tenders with Schedules of conditions on payment of rupee one per set can be obtained on application from the Divisional Contract Officer, Quetta.

H. F. E. MACMAHON, Captain,
Offg. Divl. Contract Officer, 4th (Quetta) Division.

QUETTA:
The 23rd November 1910.

NOTICE.

The Divisional Supply and Transport Officer, 8th (Lucknow) Division, Lucknow, is receiving tenders up to 11th January 1911 for the supply of kerosine oil required for the 7th and 8th Divisions for the official year 1911-12.

2. Forms of tenders and schedules and all further particulars can be obtained on application to the above officer up to 5th January 1911.

3. No tender will be received except on forms obtainable from the above officer on payment of a fee of one rupee for each set.

ROYAL INDIAN MARINE.

NOTIFICATIONS.

FURLOUGH AND LEAVE.

Bombay, the 23rd November 1910.

No. 47.—The undermentioned officer is permitted to proceed on leave out of India on private affairs under the leave rules contained in paragraph 131, Marine Regulations, India, Volume I, Part II; the specified period to count from the date of being struck off duty, *i.e.*, 19th November 1910:—

Commander C. F. Fletcher, R.I.M. . . . . 12 months.

No. 48.—Khan Sahib B. S. Wadia, Foreman of the Yard, Bombay Dockyard, is appointed to officiate as Assistant Constructor, Bombay Dockyard, *vice* Mr. W. C. King, Assistant Constructor, Bombay Dockyard, on leave, with effect from the 19th November 1910.

A. W. McARTHUR,
for Director, Royal Indian Marine.

EASTERN BENGAL STATE RAILWAY.

NOTIFICATIONS.

Calcutta, the 19th November 1910.

No. 26.—Mr. W. H. Gorton, Assistant Engineer, is granted by His Majesty's Secretary for State of India 3 months' furlough on medical certificate in continuation of the privilege leave already granted to him.

The 23rd November 1910.

No. 27.—Mr. A. C. Vining, Probationary Assistant Traffic Superintendent, Eastern Bengal State Railway, is granted, under Article 311 of the Civil Service Regulations, furlough on medical certificate for 2 months and 28 days with effect from 19th May 1910.

C. A. R. BROWNE, Colonel,
Officiating Manager, Eastern Bengal State Railway

NORTH-WESTERN RAILWAY.

NOTIFICATION.

Lahore, the 23rd November 1910.

No. 38.—Mr. S. D. Manson, Assistant Traffic Superintendent in class III, grade 3, of the Superior Revenue Establishment of State Railways passed the Lower Standard Examination in Hindustani on the 3rd October 1910.

H. P. BURT,
Manager, North-Western Railway.

OUDH AND ROHILKHAND RALWAY.

NOTIFICATIONS.

Lucknow, the 26th November 1910.

No. 12.—The six months' combined privilege leave, and special leave on urgent private affairs, granted to Mr. C. S. Chalmers, Assistant Engineer, in this office Notification No. 3 of 1910, is extended by one month on medical certificate by His Majesty's Secretary of State.

The 29th November 1910.

No. 14.—Mr. P. L. Dhawan, Assistant Engineer, passed the professional Examination prescribed in the Public Works Department Code, Volume I, paras. 167 to 169, on the 14th November 1910.

W. A. JOHNS,
Offg. Manager, Oudh and Rohilkhand Railway.

POST OFFICE.

NOTIFICATIONS.

Calcutta, the 25th November 1910.

No. 1581-*Ap.*—Mr. H. C. Roussac, Superintendent of post offices, 1st grade, is granted privilege leave for three months with effect from the 31st October 1910.

M. Nisar Ahmad Khan, Probationary Superintendent of post offices, United Provinces, is appointed to officiate as Superintendent of post offices, 5th grade, during the absence on privilege leave of Mr. H. C. Roussac, or until further orders.

2. This supersedes this office Notification No. 2350-S. Ap. dated the 8th October 1910.

The 28th November 1910.

No. 1605-*Ap.*—Mr. A. R. Hogan, Superintendent of post offices, 3rd grade, is granted privilege leave for 27 days combined with leave on medical certificate for 5 months and 3 days, with effect from the 19th August 1910.

Mr. Har Gopal, Assistant Postmaster, Delhi, is appointed to officiate as Superintendent of post offices, 5th grade, and Personal Assistant to the Postmaster-General, Central Circle, from the 13th November 1910 and until further orders.

The 30th November 1910.

No. 1637-*Ap.*—Babu Sures Chandra Gupta, 1st Assistant Postmaster, Calcutta, pay R300—400, is granted an extension of privilege leave for 23 days, with effect from the 15th November 1910.

The 1st December 1910.

No. 1647-*Ap.*—Mr. M. R. Mahima Dass, 1st Assistant Postmaster, Rangoon, pay R200—300, is granted extraordinary leave without allowances for 12 days with effect from the 19th November 1910, in continuation of the leave on medical certificate sanctioned in this office Notification No. 773-S.-Ap., dated the 30th May 1910.

C. STEWART-WILSON,
Director-General of the Post Office of India.

REPORTS OF DESERTION.

Report of a Deserter or Absentee without leave from the 74th Battery, Royal Field Artillery, dated at Barrackpore, this 28th day of November 1910.

Number, Rank, and Name—48613, Driver, Claude Samuel Grant.
Age—21 years.
Height—5 feet 5 inches.
Colour of—complexion, dark; hair, brown; eyes, dark brown.
Trade—Electrician.
Date of enlistment—28th October 1907.
Place of enlistment—Coventry.
Parish and County in which born—Rawalpindi, Punjab.
Date of desertion or absence—27th November 1910.
Place of desertion or absence—Barrackpore.
Marks—Head of Queen tattooed outerside left leg, Heart pierced with arrow front left forearm, Birthmark 1 inch by 1½ inches upper part of left shoulder blade.
Under 4 years' service.

S. S. BROWNE, Major, R. F. A.,
Commanding 74th Company, Royal Field Artillery.

Report of a Deserter or Absentee without leave from No. 64 Company, Royal Garrison Artillery (attached to No. 69 Company, Royal Garrison Artillery), dated at Colaba, Bombay, this 25th day of November 1910.

Number, Rank, and Name—29238, Gunner, Thomas J. Sindrey.
Age—23 years 3 months.
Height—5 feet 10¾ inches.
Colour of—Complexion, dark; hair, dark brown; eyes, brown.
Trade—Cook.
Date of enlistment—19th October 1907.
Place of enlistment—Aldershot.
Parish and County in which born—Rochester, Kent.
Date of desertion or absence—17th November 1910.
Place of desertion or absence—Colaba, Bombay.
Marks—Scar on right buttock. Scar under chin on neck.
Under 4 years' service.

R. F. BREWSTER, Major, R. G. A.,
Commanding No. 69 Co., R. G. A.

Report of a Deserter or Absentee without leave from No. 9 Mountain Battery, Royal Garrison Artillery, dated at Camp Bara, this 24th day of November 1910.

Number, Rank, and Name—26094, Gunner, Patrick Nolan.
Age—25 years 8 months.
Height—5 feet 9 inches.
Colour of—Complexion, fresh; hair, dark brown; eyes, grey.
Trade—Store-keeper.
Date of enlistment—8th March 1907.
Place of enlistment—Waterford, Ireland.
Parish and County in which born—Davistown, County Wexford.
Date of desertion or absence—21st November 1910.
Place of desertion or absence—Camp Mani Majra.
Marks—Scar left side of head, large scar outer-side of left leg. Teeth badly decayed.
Under 4 years' service.

A. G. HAIG, Captain, R. G. A.,
Commanding No. 9 Mountain Battery, R. G. A.

CURRENCY NOTES.

The following Currency Notes of the Cawnpore Circle are stated are have been destroyed and payment of their value has been claimed by the person whose name is placed against the numbers; any other person claiming a right to them is warned to communicate at once with the undersigned:—

Notes wholly destroyed.

Register No.	Number of Notes.	Value. R	Name of Claimant.
W 13 of 1910-11.	DA 53 62570	100 each	L. Narain Parshad, Money Lender and Zemindar, Nawabganj, Cawnpore.
	" 62571		
	" 62572		
	" 62573		
	" 62574		
	" 62575		
	" 62576		
	" 62577		
	" 62578		
	" 62579		

G. C. HART,
Currency Officer.

PAPER CURRENCY OFFICE;
CAWNPORE,
The 30th November 1910.

REVENUE AND FINANCIAL SECRETARY TO THE CHIEF COMMISSIONER, NORTH-WEST FRONTIER PROVINCE.

NOTIFICATIONS.

Peshawar, the 23rd November 1910.

No. 507-*L. F.*—*Corrigendum.*—In N.-W. F. Province Notification No. 449 L. F., dated the 14—20th November 1910, printed at pages 1579-1582 of *Gazette of India*, Part II, dated the 29th October 1910, please make the following corrections:—

Under Class I.

(1) Insert R3-2 per cent in column 3 "ad valorem" against serial No. 9 (*e*) "Seedless and black grapes produced in the district".

(2) For R4-6 per camel load printed in column 3 "By tale" against serial No. 9 (i) "Sugarcane" read Ro-4-6 per camel load.

The 24th November 1910.

No. 502-*L.F.*—Whereas the Municipal Committee of Kohat has applied to the Local Administration under the provisions of section 40 of Act XX of 1891, the Punjab Municipal Act, and whereas it appears to the Chief Commissioner, North-West Frontier Province, that land is required by the said Municipal Committee for a public purpose namely, for storage of city night soil and rubbish.

It is hereby declared that the undermentioned land is required, for the said purpose.

This declaration is made under the provisions of section 6 of Act I of 1894, and under section 7 of the said Act the Deputy Commissioner of Kohat is hereby directed to take order for the acquisition of the said land.

Specification of Land.

1	2	3	4	5	6	7
District.	Tahsil.	Mauzah.	Area.	Direction.	Boundaries.	Place where the plan may be inspected.
Kohat .	Kohat .	Garhi mawaz Khan.	A. R. P. 1	*North*—Water Channel and land of Massal, etc. *South*—Land of Latif, S. O. of Baz Gul Khasra No. 363-620. *East*—Water Channel. *West*—Water Channel and land of Billand, etc. *North*—Land of Akbar Khan, etc. *South*—Land of Afzal Khan, etc. *East*—Jarwanda Circular road. *West*—Water Channel.		Deputy Commissioner's Office, Kohat.

C. B. RAWLINSON, Major,
Revenue and Financial Secretary to Chief Commissioner, North-West Frontier Province.

NORTH-WEST FRONTIER PROVINCE—PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

NOTIFICATIONS.

TRANSFER.

Lahore, the 25th November 1910.

No. 4694-*E. I. F.*—Mr. R. A. Routh, Assistant Engineer, from the 3rd Division, Lower Jhelum Canal, which he left on the afternoon of the 5th November 1910, to the Swabi Division, Upper Swat River Canal, which he joined on the forenoon of the 12th idem.

The 28th November 1910.

No. 3341-*W.I.F.*—Whereas it appears to the Hon'ble the Agent to the Governor-General and Chief Commissioner, North-West Frontier Province, that land is required by Government for a public purpose, namely, for a service road to a stone quarry opposite R. D. 65,000 of the Machai Branch, Upper Swat River Canal.

It is hereby declared that the undermentioned land is required for the said purpose.

This declaration is made under the provisions of section 6, Act I of 1894, and under section 7 of the said Act the Collector, Peshawar, is hereby directed to take order for the acquisition of the said land.

Specification of Land.

District.	Tahsil.	Mauzah.	Area in acres.	Boundaries.	Places where the plans may be inspected.
Peshawar.	Mardan.	Allo	2·97	A narrow strip of land, 20 feet in width, running generally from east to west, and lock spitted on the ground.	Offices of the Executive Engineer, Mardan Division, Upper Swat River Canal, Mardan, and of the Deputy Commissioner, Peshawar District.

W. E. T. BENNETT,

Offg. Secretary to the Chief Commissioner,
North-West Frontier Province.

OFFICE OF THE INSPECTOR GENERAL OF POLICE—NORTH-WEST FRONTIER PROVINCE.

NOTIFICATION.

TRANSFER.

Peshawar, the 29th November 1910.

No. 31.—Khan Sahib Hafiz Zainulab Din Khan, Deputy Superintendent of Police, is transferred from the Peshawar to the Charsadda Sub-Division of the Peshawar District, where he assumed charge of his duties on the afternoon of the 19th August 1910.

H. ARDEN CLOSE,

Inspector-General of Police, N.-W. F. Province.

NORTH-WEST FRONTIER PROVINCE—JUDICIAL DEPARTMENT.

NOTIFICATIONS.

Peshawar, the 26th November 1910.

No. 110-*J*.—The following list of days to be observed as local holidays by the various Civil Courts in the Province during the year 1911 has been prepared by the Judicial Commissioner and approved by the Local Government as required by section 88, sub-section (4), of the North-West Frontier Province Law and Justice Regulation, 1901, and is published for general information :—

List of days to be observed as local holidays by the various Civil Courts during the year 1911.

District.	Names of holidays.	Month and Date.	Number of Days.
Peshawar	Jhanda Fair	23rd January (weather permitting)	1
	Nauroz Fair	21st March	1
	Horse Show	Not fixed	1
		Total	3
Hazara	Takia Dhamtaur	14th April	1
	Cattle fair, Haripur	Not fixed	1
		Total	2
Kohat	Nauroz Fair	21st March	1
	Pitr Mokhsh Amawas Fair	22nd September	1
		Total	2
D. I. Khan	Manghi Fair	13th January	1
	Sambat Fair	31st March	1
	Gop Ashtmi Fair	10th November	1
		Total	3
Bannu	Horse Show	4th March	1
		Total	1

NOTE 1. Where the actual or correct date has not been specified in the above list, the District Judge will fix it in consultation with the Divisional Judge and Deputy Commissioner, and will give timely notice of the date so fixed to the public.

2. With the previous sanction of the Judicial Commissioner and Local Government (but not otherwise) any day not specified in the list may be substituted for any day which is specified herein.

3. The number of local holidays allowed for each district will not ordinarily exceed three days in each year.

No. 111-*J*.—The following list of days to be observed as holidays in the Judicial Commissioner's Court and in the Civil Courts subordinate thereto, during the year 1911, has been prepared by the Judicial Commissioner and approved by the Local Government

as required by section 88, sub-section (4) of the North-West Frontier Province, Law and Justice Regulations, 1901, and is published for general iniormation :—

List of general holidays to be observed by the Judicial Commissioner's Court and all Civil Courts in the North-West Frontier Province, subordinate thereto, during the year 1911.

Description of holidays.	Names of holidays.	Dates on which they fall.	Day or days of the week.	Number of days exclusive of Sundays.
General	Proclamation Day	2nd January	Monday	1
Muhammadan	Muharram	7th to 12th January	Saturday and Monday to Thursday.	5
Hindu	Basant Panchami	4th February	Saturday	1
Ditto	Sheoratri	27th February	Monday	1
General	Census operations	10th and 11th March	Friday and Saturday.	2
Hindu and Muhammadan.	Holi and Bara Wafat	13th and 14th March	Monday and Tuesday.	2
Hindu	Durga Ashtumi	6th April	Thursday	1
Ditto	Baisakhi	13th April	Thursday	1
Christian	Good Friday	14th April	Friday	1
Ditto	Saturday before Easter	15th April	Saturday	1
Ditto	Easter Monday	17th April	Monday	1
Hindu	Nirjala Ikadshi	7th June	Wednesday	1
Ditto	Bias Puja	11th July	Tuesday	1
Hindu and Muhammadan.	Salono and Shab-i-Barat	10th August	Thursday	1
Hindu	Janam Ashtmi	17th August	Thursday	1
Ditto	Anant Chaudas	7th September	Thursday	1
Muhammadan	Juma-ul-Wida	22nd September	Friday	1
Ditto	Id-ul-Fitr	25th and 26th September.	Monday and Tuesday.	2
Hindu	Dusehra	29th and 30th September and 2nd October.	Friday, Saturday and Monday.	3
Ditto	Diwali	21st October	Saturday	1
Ditto	Jam Dutia	24th October	Tuesday	1
Muhammadan	Id-ul-Zuha	1st and 2nd December	Friday and Saturday.	2
Christian	Christmas and short vacations.	23rd and 25th to 30th December.	Saturday and Monday to Saturday,	7

Every Sunday in the year.

The last Saturday in every month, provided the state of business in the Courts admits.

All subordinate Civil Courts, original and appellate (with the exception of those located in the Hazara District which will be closed during the month of January) will be closed during the month of September.

NOTE.—The day fixed for the celebration of the King Emperor's birthday and Coronation will be notified separately hereafter.

Local holidays have been omitted for this list.

A. L. P. TUCKER,
Judicial Commissioner, North-West Frontier Province.

THE HON'BLE THE CHIEF COMMISSIONER AND AGENT TO THE GOVERNOR GENERAL, NORTH-WEST FRONTIER PROVINCE.

NOTIFICATION.

Peshawar, the 28th November 1910.

No. 92.—It is hereby notified that the holidays to be observed in public offices under the Administration of the Hon'ble the Chief Commissioner and Agent to the Governor General of the North-West Frontier Province, during the year 1911, which are specified in the schedule hereto annexed, are public holidays within the meaning of section 25 of the Negotiable Instruments Act, XXVI of 1881. These holidays should be given to all Government servants subject to the single condition that it should be open to the head of an office to stop a holiday notified under the Act in the case of any individual guilty of idleness or inattention to duty, unless the day in question is deemed specially sacred by the members of the religion which the offender professes.

2. Local holidays for great festivals or fairs peculiar to particular places may be granted at the discretion of heads of offices, provided always that there are no arrears of work. Heads of offices may also, subject to the same condition, permit the last Saturday of every month to be observed as a holiday in the English and Vernacular offices. In such cases all establishments should be allowed, subject to the condition laid down in the case of public holidays under the Negotiable Instruments Act, to take full advantage of the holiday.

3. This notification does not apply to holidays to be observed in Civil Courts.

SCHEDULE.

List of holidays for Public Offices during the year 1911.

Name of holidays.	Dates on which they fall.	Days or day of the week.	Number of days.	REMARKS.
GENERAL HOLIDAYS.				
All Sundays	.....	.....	52	
Proclamation day	2nd January	Monday	1	
*King Emperor's Birthday	.....	.....	1	
Census operations	10th and 11th March	Friday and Saturday	2	
CHRISTIAN HOLIDAYS.				
Easter Holidays	14th, 15th and 17th April.	Friday Saturday and Monday.	3	
Christmas Vacation	23rd to 30th December	Saturday to Saturday	8	
HINDU HOLIDAYS.				
Basant Panchmi	4th February	Saturday	1	
Sheoratri	27th February	Monday	1	
Holi	14th March	Tuesday	1	
Baisakhi	13th April	Thursday	1	
Salono	10th August	Thursday	1	
Janam Ashtmi	17th August	Thursday	1	
Dussehra	29th and 30th September and 2nd October.	Friday, Saturday and Monday	3	
Dewali	21st October	Saturday	1	
MUHAMMADAN HOLIDAYS.				
Muharam	10th to 12th January	Tuesday to Thursday.	3	
Barawafat	14th March	Tuesday	1	
Shab-at	10th August	Thursday	1	
Idul-Fitr	25th September	Monday	1	Subject to the appearance of the moon.
Idul-Zuha	2nd December	Saturday	1	

*NOTE.—The day fixed for the celebration of the King Emperor's Birthday and for His Majesty's Coronation will be notified separately hereafter.

By order, &c.,

F. W. JOHNSTON,

Secretary to the Chief Commissioner,
N.-W. Frontier Province.

NORTH-WEST FRONTIER PROVINCE—MEDICAL DEPARTMENT.

Vital Statistics of the District excluding towns of North-West Frontier Province for the month of October 1910.

Numbers.	Districts excluding Towns.	Population under registration according to Census of 1901.			Births Registered.			Deaths Registered.																							
								Cholera.		Small-pox.		Plague.		Fever.		Dysentery and Diarrhœa.		Respiratory Diseases.		Injuries including suicide.		Other causes.		Total all causes.				Total of corresponding month of previous year.				
																								Number.				Number.				
		Males.	Females.	Total.	Number registered excluding still-births.	Ratio per 1,000 per annum of population.	Still-born number registered.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Male.	Female.	Total.	Ratio per 1,000 per annum.	Male.	Female.	Total.	Ratio per 1,000 per annum.	Number.
1	Hazara	238,387	214,856	453,243	1,498	38·91	22	30	0·78	...	...	...	...	844	21·92	24	0·62	83	2·15	8	0·21	291	7·56	620	660	1,280	33·25	443	435	878	22·81	1
2	Peshawar	360,645	319,449	680,094	1,578	27·32	9	263	4·55	5	0·09	...	...	1,243	21·86	3	0·05	18	0·31	12	0·21	101	1·75	903	762	1,665	28·82	843	787	1,630	28·82	2
3	Kohat	99,682	87,421	187,103	766	44·43	6	142	8·94	8	0·50	...	...	404	25·42	...	...	...	...	14	0·88	60	3·78	313	315	628	39·52	225	210	435	27·37	3
4	Bannu	114,078	97,898	211,976	860	47·77	9	...	...	5	0·28	...	...	345	19·16	2	0·11	13	0·72	3	0·17	96	5·33	237	227	464	25·77	285	259	544	39·99	4
5	Dera Ismail Khan	112,207	94,908	207,115	803	45·65	21	7	0·40	5	0·28	...	...	216	12·28	11	0·62	10	0·57	4	0·23	79	4·49	171	161	332	18·87	213	178	391	22·22	5
	Total of month for province	924,999	814,532	1,739,531	5,445	36·86	67	442	2·99	23	0·16	...	...	3,072	20·79	40	0·27	124	0·84	41	0·28	627	4·24	2,244	2,125	4,369	29·57	2,009	1,869	3,878	26·25	
	Total of corresponding month of previous year	...	...	...	5,033	34·07	61	...	...	27	0·18	...	...	3,109	21·04	28	0·19	67	0·45	58	0·39	589	3·99	2,005	1,869	3,878	26·25	...	...	...	...	
	Increase or Decrease	...	...	...	+412	+2·79	+6	+442	+2·99	−4	−0·02	...	...	−37	−0·25	+12	+0·12	+57	+0·39	−17	−0·11	+38	+0·25	+235	+256	+491	+3·32	...	...	...	...	...

PESHAWAR;
The 28th November 1910.

A. L. DUKE, Lieut.-Col., I.M.S.,
Administrative Medical Officer, North-West Frontier Province.

NORTH-WEST FRONTIER PROVINCE—MEDICAL DEPARTMENT.

Vital Statistics of the towns of North-West Frontier Province for the month of October 1910.

District.	Number.	Town.	Population under registration according to census of 1901.			Births registered.			Deaths registered.																								
									Cholera.		Small-pox.		Plague.		Fever.		Dysentery and Diarrhœa.		Respiratory Diseases.		Injuries including suicide.		Other causes.		Total all causes.				Total of corresponding month of previous year.				
																									Number.				Number.				
			Males.	Females.	Total.	Number registered excluding still-births.	Ratio per 1,000 per annum of population.	Still-born number registered.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Number registered.	Ratio per 1,000 per annum.	Male.	Female.	Total.	Ratio per 1,000 per annum.	Male.	Female.	Total.	Ratio per 1,000 per annum	Number.
Hazara	1	Abbottabad	2,271	1,124	3,395	8	27·74	...	...	...	...	...	...	...	2	6·94	1	3·47	...	...	...	...	2	6·94	2	3	5	17·34	1	5	6	20·81	1
	2	Nawashahr (notified area).	2,222	1,892	4,114	13	37·21	...	...	...	...	...	...	...	17	48·65	...	...	1	2·86	1	2·86	4	11·45	15	8	23	65·82	4	7	11	31·48	2
	3	Buffa (notified area).	3,774	3,255	7,029	29	48·58	...	...	...	...	...	...	...	28	46·90	3	5·03	1	1·68	...	...	9	15·08	24	17	41	68·68	6	9	15	25·13	3
	4	Haripur	3,039	2,539	5,578	28	59·10	1	4	8·44	...	...	...	...	4	8·44	1	2·11	4	8·44	...	...	9	19·00	12	10	22	46·44	7	4	11	33·22	4
Peshawar	5	Peshawar	40,870	32,473	73,343	150	24·08	3	3	0·48	7	1·12	...	...	123	19·75	15	2·41	35	5·62	2	0·32	37	5·94	108	114	222	35·64	78	101	179	28·74	5
	6	Nowshera Kalan (notified area).	5,117	4,546	9,663	30	35·55	...	...	...	...	...	...	...	28	34·12	...	...	...	...	...	...	2	2·44	8	22	30	36·55	13	12	25	30·54	6
	7	Becketganj Khowajaganj (notified area).	not available		5,566	5	6·09	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Kohat	8	Kohat	10,508	7,584	18,092	54	35·15	...	...	...	...	...	...	...	16	10·41	...	...	1	0·65	...	...	4	2·60	10	11	21	13·67	17	12	29	18·87	8
Bannu	9	Bannu	6,036	4,034	10,070	39	45·60	...	...	...	6	7·02	...	...	9	10·52	1	1·17	4	4·68	1	1·17	8	9·35	18	11	29	23·91	19	11	30	35·08	9
	10	Lakki (notified area).	2,791	2,427	5,218	31	69·95	...	...	...	...	...	...	...	2	4·51	1	2·26	...	...	...	...	4	9·03	5	2	7	15·80	1	5	6	13·54	10
Dera Ismail Khan.	11	Dera Ismail Khan	15,545	12,742	28,287	107	44·54	1	...	...	...	...	...	...	23	9·57	7	2·91	9	3·75	...	...	26	10·82	42	23	65	27·06	39	29	68	28·30	11
	12	Kulachi	4,471	4,654	9,125	10	12·90	...	...	...	...	...	...	...	2	2·58	...	...	...	...	...	...	2	2·58	2	2	4	5·16	4	6	10	12·90	12
	13	Tank* (notified area).	2,561	1,841	4,402	3	8·02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2·67	1	...	1	2·67	2	2	4	10·70	13
Total of month			...	...	183,882	507	32·46	5	7	0·45	13	0·83	...	...	254	16·26	29	1·86	55	3·52	4	0·26	108	6·92	247	223	470	30·09	191	203	394	25·23	...
Total of corresponding month of previous year.			...	...	...	431	27·67	7	...	...	3	0·19	...	...	254	16·26	11	0·70	39	2·50	5	0·32	82	5·25	191	203	394	25·23	...	...	...	...	...
Increase + or Decrease			...	...	...	+76	+4·79	−2	+7	+0·45	+10	+0·64	...	...	...	...	+18	+1·16	+16	+1·12	−1	−0·06	+26	+0·67	+56	+20	+76	+4·87	...	...	...	...	...

Brief remarks by compiling authority as to any noticeable points in the returns for the month.

PESHAWAR;
The 28th November 1910.

A. L. DUKE, Lieut.-Col., I.M.S.,
Administrative Medical Officer, North-West Frontier Province.

THE RESIDENT IN MYSORE.

Catalogue of books published in the Civil and Military Station of Bangalore under the provisions of Act XXV of 1867 during the quarter ending 30th September 1910.

1	2	3	4	5	6
Serial No.	Author and title, brief subject, including the age of the book where the same is obscure, number of pages, publisher and place of publication, date given on the title page with the name of the era—when other than the Christian era date of issue from the press or of publication, size, edition, and price.	Printer and place of printing.	Number of copies.	Registration No.	Proprietor of copyright (his name and residence), Register No. and date of registration of copyright.
	KANNADA—NOVEL.				
1	**Venkatakrishnappa, B.,— B.A.—ಮಹಾಲಕ್ಷ್ಮಿ [Maha-Lakshmi,** depicting the evil influences of drinking and bad society.] Pages 50. Published by the author, Bangalore, 1910, (30th June 1910). 12 Demy. 1st edition. **Price,** 2 annas.	K. Narayana Iyengar, Caxton Press, Civil and Military Station, Bangalore.	1,000	3	B. Venkatakrishnappa, B.A., Clerk, Revenue Commissioner's Office, Bangalore.

P. B. WARBURTON, Major,
First Assistant Resident.

BANGALORE;
The 14th November 1910.

INDIAN TELEGRAPH DEPARTMENT.

NOTIFICATION.

Calcutta, the 1st December 1910.

No. 29-*G*.—Mr. J. Williams, Deputy Superintendent, 1st class, General, has been granted an extension of leave on medical certificate for 3 months, with effect from the 2nd of October 1910 in continuation of the leave sanctioned in this Department's Notification No. 12-G., dated the 31st of May 1910.

F. E. DEMPSTER,
Offg. Director General of Telegraphs.

SURVEY OF INDIA.

NOTIFICATIONS.

Calcutta, the 29th November 1910.

No. 519.—The six months' combined leave granted to Mr. J. A. Freeman, Extra Assistant Superintendent, 4th grade, in this office Notification No. 503, dated the 1st October 1910, is hereby cancelled.

The 1st December 1910.

No. 520.—An examination for admission to the new Provincial Service of the Survey of India will be held in August 1911, on the dates and at the places to be notified hereafter.

The number of vacancies to be competed for will probably be two, if suitable candidates present themselves. As there are not likely to be any further vacancies for some years, it is probable therefore that there will be no Entrance Examination in 1912 or 1913. Applications for "Instructions for applicants" (a copy of which is printed below) should be addressed to the Officer in charge, Surveyor General's Office, 13, Wood Street, Calcutta.

Applications will be received from 1st February to 15th May 1911.

S. BURRARD, Colonel, R.E.,
Offg. Surveyor General of India.

SURVEY OF INDIA.

Instructions for Applicants for the competitive examination of the new Provincial Service of the Survey of India.

1. Every applicant must forward his application on the prescribed form addressed to the Officer in charge, Surveyor General's Office, 13, Wood Street, Calcutta, accompanied by certificates as to age, character, education, health, etc., and by specimens of drawing. All applications must reach Calcutta on or before the 15th May, after which date no application will be entertained for that year's examination. The applications of all Indian applicants must be countersigned by the Magistrate of the District or Town in which the applicant's family resides. Application forms and lists of certificates, etc., can be obtained from the Surveyor General's Office.

2. All applicants must be over 18 and under 22 years of age on the 1st September of the year in which they are examined. They must be statutory natives of India, and all Indian applicants must be of pure Asiatic descent. All European and Eurasian applicants must be unmarried and, if successful in the examination, they will not be allowed to marry during the period of probation referred to in para. 9.

3. All applicants must have passed the First Arts or Intermediate Examination of an Indian University. or the Final High Standard Examination under the Code Regulations of European Schools, or possess one of the following :—

(*i*)—Oxford University Responsions Certificate.
(*ii*)—Oxford Senior Local Pass Certificate.
(*iii*)—Cambridge Senior Local Pass Certificate.
(*iv*)—Cambridge University Previous Certificate.
(*v*)—The London University Matriculation Certificate.
(*vi*)—Any United Kingdom University Entrance Examination Certificate.

4. Selected applicants will be instructed to present themselves on a certain date in June before a board of officers of the Survey of India at one or other of the following places:—Calcutta, Dehra Dun, Mussooree, Bangalore, Shillong, or Maymyo.

5. The recommendations of the boards as to the suitability of applicants for employment in the Survey of India will be forwarded to the Surveyor General to enable him to make a final selection and to nominate the candidates who may appear at the examination which will be held at the end of August at the places mentioned in para. 4.

6. Every candidate who appears at the examination will be required to sign an agreement, in the prescribed form, that he is prepared to serve in any part of India or Burma to which he may be sent and that he will not demand his discharge during the period of probation nor for three years from the date of being permanently appointed to the Provincial Service and never during the field season.

7. The details of the competitive examination, including the maximum marks for each subject, are given in the table below. No candidate will be considered to have qualified unless he obtains 50 per cent. of the total marks in Mathematics and 30 per cent. of the total number in Drawing.

8. Those candidates who obtain the greatest number of marks will be appointed in order of passing up to the number of probationary appointments offered for competition.

9. The successful candidates will be required to join the Survey of India on or about the 1st November ; they will be on probation for three years and will receive salary at the rate of R100 per mensem for the first year, R125 per mensem for the second year, and R150 per mensem for the third year.

10. A candidate appointed on probation may be discharged by the Surveyor General at any time during the period of probation, and no probationer will be permanently appointed

to the Provincial Service until he has completed his period of probation, and has satisfied the Surveyor General that he is capable of executing the duties he will be called upon to perform and is also suitable in other respects. The term of probation may be prolonged by the Surveyor General to the extent of any period or periods of leave passed on medical certificate. Probationary service, if followed by a permanent appointment, will count for leave and pension.

11. On being permanently appointed to the new Provincial Service after completion of the period of probation prescribed in para. 9, an officer will be designated Extra Assistant Superintendent and will receive pay at the rate of R250 per mensem, rising by triennial increments of R50 to R600, subject to the condition that the Surveyor General shall have power to stop any increment for unsatisfactory work or conduct. The service will also include a number of posts of Extra Deputy Superintendents, promotion to which will ordinarily be made by selection from among the Extra Assistant Superintendents on R600. The Government of India, however, reserve the right to select any Extra Assistant Superintendent for promotion to the rank of Extra Deputy Superintendent.

The following posts of Extra Deputy Superintendents have been sanctioned :—

	R.
4 posts on	650 per mensem.
3 „ on	700 „ „
2 „ on	800 „ „
2 „ on	1,000 „ „

TABLE GIVING DETAILS OF THE COMPETITIVE EXAMINATION.

MATHEMATICS.				DRAWING.				GRAND TOTAL.
Algebra up to and including the Binomial Theorem.	Geometry First Four and Sixth Books of Euclid with Problems.	Plane Trigonometry, Mensuration and Logarithms.	Total.	Free-hand from copies.	Map.	Geometrical.*	Total.	
300	350	350	1,000	100	100	150	350	1,350

*Drawing plane geometrical figures with compass and rule, and the construction of scales of all kinds, including diagonal scales.

GOVERNMENT PUBLICATIONS FOR SALE.

BY THE SUPERINTENDENT OF GOVERNMENT PRINTING, INDIA, 8, HASTINGS STREET, CALCUTTA.

A General Catalogue of all Government Publications may be obtained gratis from the Government Central Press, Calcutta.

All books published by the Superintendent of Government Printing, India, can be purchased either directly or through the following or any other booksellers :—

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Mr. E. A. Arnold, 41 and 43, Maddox Street, Bond Street, London, W.
Messrs. Constable & Co., 10 Orange Street, Leicester Square, W.C.
Messrs. Kegan Paul, Trench, Trübner & Co., 43, Gerrard Street, Soho, London, W.
Mr. Bernard Quaritch, 11, Grafton Street, New Bond Street, W.
Messrs. P. S. King & Son, 2 and 4, Great Smith Street, Westminster.
Messrs. H. S. King & Co., 65, Cornhill, and 9, Pall Mall, London.
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Mr. T. Fisher Unwin, 1, Adelphi Terrace, London, W. C.
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Mr. Karl Hiersemann }
Messrs. R. Friedlander & Sohn, Berlin W. N., Carlstrasse, 11.
Mr. Ernest Leroux, 28, Rue Bonaparte, Paris.
Mr. Martinus Nijhoff, The Hague, Holland.
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Messrs. Luzac & Co., 46, Great Russell Street, London, W.C.

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*Agents for sale of the Legislative Department publications.

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Books and Acts required for the public service should be obtained through the Local Government to whom the applicant is subordinate.

Application for Government publications which are no longer in print should be made to the Agent to the particular Government under whose orders they were originally issued.

[The amounts within parentheses are for packing and postage.]

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Act I of 1904 (Prisons), with footnotes. *2a. 9p.* (*1a.*)
General Rules and Orders made under Enactments in force in British India, Vol. IV. Edition 1910. R5 or *7s. 6d.* (*9a.*)

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The Inland Steam Vessels Act, 1884 (Act VI of 1884), as modified up to the 1st October 1910. Royal 8vo. Stitched. 9*a*. (2*a*.)

HOME DEPARTMENT.

Report on the Measures taken against Malaria in the Lahore (Mian Mir) Cantonment, 1909, by Hon'ble Mr. R. Nathan, C.I.E., I.C.S., Lieutenant-Colonel H. B. Thornhill, C.I.E., I.A., and Major L. Rogers, M.D., F.R.C.P., F.R.C.S., I.M.S., 1909. Foolscap. Board. R2-8 or 4*s*. (5*a*.)
Quarterly List of Officers in the Departments of the Government of India from October to December 1910. Foolscap. Paper cover. 4*a*. or 5*d* (1*a*.)
Scientific Memoirs by Officers of the Medical and Sanitary Departments of the Government of India.—Preliminary Report on the killing of Rats and Rat Fleas, by Hydrocyanic acid Gas by Captain W. D. H. Stevenson, M.B., I.M.S., New series No. 38. Super Royal 4to. Board. 8*a*. or 9*d*. (4*a*.)
The Quarterly Civil List of the Home and Legislative Departments, Government of India. No. 14. Corrected to 1st October 1910. Royal 8vo. Limp. 11*a*. or 1*s*.

FOREIGN DEPARTMENT.

History of Services of Officers holding Gazetted appointments under the Foreign Department. Corrected to 1st July 1910. Royal 8vo. Board. 12*a*. or 1*s*. (6*a*.)
The Quarterly Civil List of the Foreign Department. No. 17. Corrected up to 1st October 1910. Super Royal 8vo. Paper cover. R2 8*a*. or 3*s*. 9*d*. (4*a*.)

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Statistics of cotton spinning and weaving in the Indian Mills in September 1910. Royal 8vo. Stitched. 2*a*. or 2*d*. (1*a*.)

DEPARTMENT OF REVENUE AND AGRICULTURE.

A note on the Preservation of Bamboos from the attacks of the Bamboo Beetle or "Short-borer" Forest Pamphlet No. 15 (Forest Zoology Series) by E. P. Stebbing. 7*a*. or 8*d*. (2*a*.)

LIST OF BOOKS PUBLISHED FROM APRIL TO SEPTEMBER 1910.

LEGISLATIVE DEPARTMENT.

The Indian Arms Act, 1878 (Act XI of 1878), as modified up to the 1st March 1910. 5*a*. 6*p*. (1*a*.)

Corrigendum to Volume II of the Unrepealed General Acts, edition 1909.

Corrigendum to the Sea Customs Act, 1878 (VIII of 1878), as modified up to 1st June 1908.

The General Clauses Act (X of 1897) as modified up to 1st February 1910. 5*a*. 6*p*. (1*a*. 6*p*.)

Act 26 of 1881. In Urdu and Hindi. As. 4. (1*a*.) each.

Act 13 of 1880. In Urdu and Hindi. As. 1-3. (1*a*.) each.

Act 1 of 1910. In Urdu and Hindi. 6*p*. (1*a*.) each.
Act 3 of 1910. In Urdu and Hindi. 3*p*. (1*a*.) each.
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Act 2 of 1910. In Urdu and Hindi. 6*p*. (1*a*.) each.
Act 5 of 1910. In Urdu and Hindi. 3*p*. (1*a*.) each.

Act II of 1857 (Calcutta University), as modified up to 1st June 1910. 2*a*. (1*a*.)

The Indian Factories Act, 1881 (XV of 1881), as modified up to the 1st April 1910. 5*a*. (1*a*. 0*p*.)

The Succession Certificate Act, 1889 (VII of 1889), as modified up to 1st June 1910. 5*a*. 6*p*. (1*a*.)

The Cantonment (House-accommodation) Act, 1902 (II of 1902). as modified up to 1st June 1910. 6*a*. 6*p*. (1*a*.)

The Cattle-trespass Act, 1871 (I of 1871), as modified up to the 1st May 1910. 6*a*. (1*a*.)

The Indian Telegraph Act, 1885 (Act XIII of 1885), as modified up to 1st June 1910. Royal 8vo. Stitched. 5*a*. (1*a*.)

The Indian Penal Code (Act XLV of 1860) as modified up to the 1st June 1910. With an Index. R2 8*a*. (5*a*.)

The Opium Act, 1878 (Act I of 1878), as modified up to the 1st July 1910. 5*a*. 6*p*. (1*a*.)

Act XXXI of 1854 (Conveyance of Land) as modified up to 1st June 1910. 2*a*. 3*p*. (1*a*.)

The Prisoners Act, 1900 (III of 1900), as modified up to 1st July 1910. 6*a*. 6*p*. (1*a*.)

The Probate and Administration Act, 1881 (Act V of 1881), as modified up to the 1st July 1910. 12*a*. (2*a*.)

List No. I of 1910, dated 30th June 1910, of Addenda et Corrigenda to List of General Rules and Orders. 2*a*. 3*p*. (1*a*.)

Act No. III of 1864 (Foreigners) as modified up to 1st September 1910. 3*a*. 6*p*. (1*a*.)

The Assam Labour and Emigration Act, 1901 (VI of 1901) as modified up to 1st July 1910. R1-4 (2*a*.)

HOME DEPARTMENT.

Annual Report of the Sanitary Commissioner with the Government of India for 1908. With Appendices and Returns of Sickness and Mortality among European Troops, Native Troops and Prisoners in India for the year. Foolscap. Board. R3 or 4*s*. 6*d*. (8*a*.)

Quarterly List of Officers in the Departments of the Government of India from April to June 1910. Foolscap. Paper cover. 4*a*. or 5*d*. (1*a*.)

The Quarterly Civil List of the Home and Legislative Departments, Government of India, No. 12. Corrected to 1st April 1910. Royal 8vo. Limp. 11*a*. or 1*s*. (2*a*.)

Rules of the High Court of Judicature at Fort William in Bengal, Appellate Side. Royal 8vo. Board. R2 or 3*s*. (4*a*.)

Report on the results of certain Investigations regarding Rats in the Punjab by Captain G. I. Davys, I.M.S. Foolscap. Board. 6*a*. or 7*d*. (3*a*.)

Scientific Memoirs by Officers of the Medical and Sanitary Departments of the Government of India. Investigation on Bengal Jail Dietaries with some observations on the Influence of dietary on the physical development and well-being of the people of Bengal by Captain D. McCay, M.B., B.Ch., B.A.O., I.M.S. Super Royal 4to. Board. R2-6 or 4*s*. 3*d*. (9*a*.)

Archæological Survey of India, Vol. XXXV, Akbar's Tomb, Sikandarh. Super Royal. Cloth. R23 or £1 15*s*. (14*a*.)

Fauna of British India. "Dermaptera." Royal 8vo. Cloth. R7 8*a*. (5*a*.)

Quarterly List of Officers in the Departments of the Government of India from July to September 1910. Foolscap. Paper cover. 4*a*. or 5*d*. (1*a*.)

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Report on the Administration of Ajmer-Merwara for 1908-09. Foolscap. Board. R2 or 3*s*. (5*a*.)

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Abstract of the Principal Civil Leave and Pensions Rules, 1910. As. 4. (1*a*.)

History of Services of officers holding appointments in the offices under the control of the Government of India, Finance Department, corrected to 1st July 1910. As. 12 or 1*s*. (3*a*.)

COMPTROLLER GENERAL.

Appropriation Report on the Accounts of the Government of India for 1908-09. By O. T. Barrow. Foolscap. Board. 8*a*. or 9*d*. (6*a*.)

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Annual Statement of the Sea-borne Trade and Navigation of British India with the British Empire and Foreign Countries in the year ending March 31st, 1909, and the four preceding years, etc. Vol. II. Super Royal. Board. R3 or 4*s*. 6*d*. (R1-2)

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Area and yield of crops in India for 1909-10. 12th issue. Price 4*a*. or 5*d*. (2*a*.)

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Statistics of British India for 1908-09 and preceding year, Part V, Area, population and public health. Price R1 or 1*s*. 6*d*. (4*a*.)

Statistics of British India for 1908-09 and preceding year, Part VI, Administration and Judicial. R1 or 1*s*. 6*d*. (4*a*.)

Supplement to the Annual Statement of Trade and Navigation of British India for 1908-09, Vol. I. R3. (8*a*.)

DEPARTMENT OF REVENUE AND AGRICULTURE.

Burma Padauk. Forest Pamphlet No. 14 (Petrocarpus, Macrocarpus, Kurz) by R. S. Troup, F.C.H. R1 or 1*s*. 6*d*. (2*a*.)

Classified List of Forest Officers of the Imperial and Provincial Services in the Bengal, Madras and Bombay Presidencies on 1st January 1910. Royal 8vo. Board. R1 or 1*s*. 6*d*. (4*a*.)

Progress Report on Forest Administration in Baluchistan for 1908-09. Foolscap. Paper cover. R1-12 or 2*s*. 6*d*. (2*a*.)

Annual Report of the Board of Scientific Advice for India for the year 1908-09. Royal 8vo. Paper cover. R1 or 1*s*. 6*d*. (4*a*.)

The Indian Forest Records, Vol. II, Part II. A Note on the Fissibility of some Indian Woods. Royal 8vo. Paper cover. R1-6 or 1*s*. 9*d*. (2*a*.)

The Indian Forest Memoirs, Vol. II, Part I. (Economic Product Series). The Prospects of the Match Industry in the Indian Empire with particulars of proposed Match Factory Sites and woods suitable for match manufacture. Super-Royal 4to. Paper cover. R1-12 or 3*s*. (5*a*.)

Forest Pamphlet No. 16. Note on Best Season for coppice Fellings of Teak (Tectona Grandis) Super-Royal 8vo. Paper. As. 4 or 5*d*. (1*a*.)

Proceedings of the Board of Agriculture in India held at Pusa on the 21st February 1910 and following days with appendices. Foolscap. Paper cover. As. 8 or 9*d*. (2*a*.)

PUBLIC WORKS DEPARTMENT.

Classified List and Distribution Return of Establishment. Corrected up to 30th June 1910. Royal 8vo. Paper Cover. R1 or 1*s*. 6*d*. (2*a*.)

ARMY DEPARTMENT.

Papers and Maps set for the Examination in subjects (d) to (j) for promotion held in India in October 1909 with remarks by the examiners. Demy 8vo. Board. R1 or 1*s* 6*d*. (2*a*.)

Report on the Examination in subjects (d to (j) for promotion held in India in March 1910, with remarks by Examiner, 1910. Price R1 or 1*s*. 6*d*. (2*a*.)

RAILWAY BOARD.

Alphabetical List of Stations on Indian Railways (including Steamer and Out-Agency Stations worked in connection therewith) corrected up to the 31st December 1909. Foolscap. Paper cover. R1 or 1*s*. 6*d*. (5*a*.)

Administration Report on the Railways in India for the calendar year 1909. Foolscap. Limp cover. R2 or 2*s*. 8*d*. (6*a*.)

Classified List of the State Railway Establishment and Distribution Return of Establishment of Railways corrected up to 30th June 1910. Royal 8vo. Paper cover. R1 or 1*s*. 6*d*. (2*a*.)

ACCOUNTANT GENERAL, BENGAL.

History of Services of Gazetted and other Officers serving under the Government of Bengal, corrected to 1st July 1909. Part I. Royal 8vo. Board. R2 or 3*s*. (8*a*.) Part II R2 or 3*s*. (6*a*.) Complete R4 or 6*s*. (14*a*.)

OTHER LOCAL GOVERNMENTS AND ADMINISTRATIONS.

North-West Frontier Province District Gazetteers, Volume III B, Kohat District. Statistical Table 1904. Royal 8vo. Board. R1 or 1*s*. 4*d*. (3*a*.)

Note on the Registration Returns of the North-West Frontier Province for the year 1909. Foolscap Paper cover. 6*a*. or 6*d*. (2*a*.)

Report of the Chemical Examiner to Government, North-West Frontier Province, for the year 1909. Foolscap. Paper cover. 2*a*. 3*p*. or 2¼*d*. (2*a*.)

Selections from the Records of the Madras Government, Dutch Records No. 9. Extracts from General Inventories and Establishment lists of the years 1743, 1761 and 1780. Copied by the Rev. P. Groot. Foolscap. Board. 10*a*. or 1*s*. (2*a*.)

Report of the Sanitary Commissioner of the North-West Frontier Province, 1909. Foolscap. Paper cover. 4*a*. 6*p*. (2*a*.)

Records of Fort St. George.—Diary and Consultation Book, Military Department, 1752. Foolscap. Board. R1-2 or 1*s*. 9*d*. (3*a*.)

Administration Report of the Jails of the North-West Frontier Province for the year 1909. Foolscap. Paper cover. As. 10 or 10*d*. (2*a*.)

Report on Vaccination in the North-West Frontier Province for the year 1909-1910. Foolscap. Paper cover. As. 5 or 5*d*. (2*a*.)

LIST OF NEW BOOKS FOR SALE AT THOMASON COLLEGE, ROORKEE, WHICH WERE NOT ADVERTISED BEFORE.

Roorkee Treatise and Civil Engineering—

Section IX, Railways, 5th Edition. Revised by F. G. Royal Dawson, 1908. R4-4.
Section V, Manual of Estimating, 7th Edition, 1908. (Reprint.) R3-12.

Thomason College Calendar for 1908. R5-2.

Examination question papers of the Thomason College Civil Engineer Class and Upper Subordinate Class Entrance Examination and the 4th grade P. W. Accounts Examination from 1905-1909 published by the Newul Kishore Press, Lucknow. R1-4.

LIST OF NEW BOOKS AND PERIODICALS FOR SALE AT THE LIBRARY OF THE ASIATIC SOCIETY OF BENGAL, 57, PARK STREET, CALCUTTA.

SOCIETY'S PUBLICATIONS.

Journal and Proceedings, Vol. 5, Nos. 2 to 11, at R2 each.

Memoirs, Vol. 2, No. 10, Cerrhipedes Opercules de l'Indian Museum de Calcutta. Par Mr. M. A. Gruval, at R2.

Memoirs, Vol. 2, No. 11, Correlations of Areas of Matured Crops and the Rainfall. By Mr. S. M. Jacob, I.C.S., at R2-8.

BIBLIOTHECA INDICA.

Rasarnavam, Fasc. 2. By Dr. P. C. Roy, at R1-4.

Grihya Sangraha. By M. M. Chandra Kanta Tarkalankar, at As. 10.

Gobhila Paricista, Part I. By M. M. Chandra Kanta Tarkalankar, at R1-14.

Baudhayana Srauta Sutra, Vol. 2, Fasc. 3. By Dr. W. Caland, at As. 10.

Suryya Siddhanta, Fasc. 1. By M. M. Sudhakara Dvivedi, at R1-4.

Chaturvarga Cintamoni, Vol. 4, Fasc. 9. By Pandit Pramatha Nath Tarkabhusana. As. 10.

Avadhan Kalpalata, Vol. I. Fasc. 7. By Rai Sarat Chandra Das Bahadur, at R1.

Mohabhasyapradipodyata, Vol. 3, Fasc. 10. By Pandit Bahuvallava Shastri, at As. 10.

Muntakhab-al-Labab. Part 3, Fasc. 1. By Major T. W. Haig, I.A., at R1.

LIST OF PUBLICATIONS ISSUED BY THE METEOROLOGICAL DEPARTMENT FROM 1ST APRIL TO 30TH SEPTEMBER 1910.

Monthly Weather Review for September 1909 to March 1910. (Illustrated by 7 plates.) Quarto. Paper cover. R1 per month.

Memoirs of the Indian Meteorological Department, Vol. XVIII, Part IV. By Sir John Eliot, M.A., F.R.S., K.C.I.E. (Illustrated by 40 plates.) Quarto. Paper cover. R2.

Memoirs of the Indian Meteorological Department, Vol. XXI, Part I. By Gilbert T. Walker, M.A., D.Sc., F.R.S. (Illustrated by 7 plates.) Quarto. Paper cover. R1 8a.

Monthly Weather Review for December 1909 to June 1910. (Illustrated by 7 plates.) Quarto. Paper cover. R1 per month.

Memoirs of the Indian Meteorological Department, Vol. XXI, Part II. By Gilbert T. Walker, M.A., D.Sc., F.R.S. (Illustrated by 2 plates.) Quarto. Paper cover. Price R1-8.

Memoirs of the Indian Meteorological Department, Vol. XX, Part 8. By George C. Simpson, D.Sc. (Illustrated by 2 plates.) Quarto. Paper cover. Price R3.

Tables for the reduction of Meteorological Observations in India. Quarto. Cloth binding. R2.

LIST OF NEW BOOKS PUBLISHED BY THE GEOLOGICAL SURVEY OF INDIA DURING THE WEEKS ENDING 24TH SEPTEMBER, 8TH OCTOBER, 12TH NOVEMBER AND 19TH NOVEMBER 1910.

Records of the Geological Survey of India, Volume XXXIX, 1910. By Sir Thomas H. Holland, K.C.I.E., D.Sc., F.R.S., and L. Leigh Fermor, D.Sc. A.R.S.M. F.G.S. (with Plates 1-8). R2.

Records of the Geological Survey of India, Volume XL, Part I. Director, Geological Survey of India. R1.

Records of the Geological Survey of India, Volume XL, Part II. T. H. D. LaTouche, Esq., B.A., F.G.S., Offg. Director, Geological Survey of India. R1.

Records of the Geological Survey of India, Volume XL, Part III. Director, Geological Survey of India. R1.

Memoirs of the Geological Survey of India, Palæontologia Indica. Serices XV, Vol. IV, Fasc. 3. By Dr. Victor Uhlig. R8.

LIST OF PUBLICATIONS ISSUED BY THE METEOROLOGICAL DEPARTMENT DURING THE CURRENT QUARTER.

Monthly Weather Review for July 1910. Illustrated by 7 plates. Quarto. Paper cover. Price R1.

Monthly Weather Review, August 1910. Illustrated by 7 plates. Quarto. Paper cover. Price R1.

The Gazette of India.

PUBLISHED BY AUTHORITY.

CALCUTTA, SATURDAY, DECEMBER 10, 1910.

☞ Separate paging is given to this Part in order that it may be filed as a separate compilation.

PART II.

Notifications by High Court, Comptroller General, etc.

GAZETTE OF INDIA.

NOTICE.

The 12th October 1910.

From the 12th November next till further notice, the complete *Gazette of India* will be published at Calcutta. After the 5th November all notifications and other matter intended for publication in the *Gazette* should be addressed to the Publisher, 8, Hastings Street, Calcutta.

Attention is invited to the following Circular Memorandum of the Government of India, Home Department, of August 1901 :—

"It has been brought to the notice of this Department that matter for the *Gazette of India* is sometimes sent to the Press late on Friday evenings for publication in the next day's *Gazette*, and that this involves considerable inconvenience to the Press and expense to Government. In the Circular Memorandum of this Department, No. 777—79, dated 9th February 1870, the Government of India directed that all notifications or other matter intended for insertion in the *Gazette of India* should be delivered at the Press not later than 2 P.M. on Friday, and that any papers sent thereafter must be certified to be extremely urgent in order to ensure their appearance in the next day's *Gazette*. The undersigned is directed to request that these orders may be more strictly observed in future, and that Departments will refrain from sending to the Press as extremely urgent any papers which can without harm or inconvenience be held over for the next *Gazette*."

J. P. HEWETT,
Secretary to the Government of India.

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J. J. MEIKLE,
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GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

INVENTIONS and DESIGNS.

Calcutta, the 8th December 1910.

NOTIFICATIONS.

No. 2085-P.—APPLICATIONS in respect of the undermentioned inventions have been filed, under the provisions of the Inventions and Designs Act of 1888, in the office of the Secretary appointed under that Act during the week ending 5th December 1910 :—

No. 616 of 1910.—Charles Rudston Brown, fibre grower, of Bhatowilia, Goraul, in the district of Mozufferpore, British India. *Improvements in decorticating and fibre cleaning machines.*

No. 617 of 1910.—Alfred Chatterton, director of industries, Madras. *Lifting water.*

No. 618 of 1910.—James Allen Magill, assistant locomotive foreman, Rohilkund & Kumaun Railway, Kashipur, *viâ* Moradabad. *A Chula or cooking stove.*

No. 619 of 1910.—Robert Alexander Gerrie Russell, engineer, of 23 Mall road, Dum Dum, in the 24-Pergunnahs, district of Bengal, British India. *Improved mechanism for operating swinging punkahs.*

No. 620 of 1910.—Fateh Mohamed, kulla maker, Serai Kala (Dheri Shahan), Rawalpindi district. *Kulla or Indian cap.*

No. 621 of 1910.—Isaac Henry Storey, manufacturer, of White Cross Mills, and William Edward McCalla, manager, of Queen's Mill, both of Lancaster, in the county of Lancaster, England. *Improvements relating to enamel faced bricks, slabs, wall-tiles, and the like.*

No. 622 of 1910.—Surendra Nath Dass, mechanic, of No. 7 Kinu Sircar's lane, Howrah. *A pulley power baling press with an improved follower.*

No. 623 of 1910.—Hans Peter Rasmussen, of 1 Council street, St. Kilda, in the city of Dunedin, province of Otago, and dominion of New Zealand. *Composition for the use of electric insulating and other commercial purposes.*

No. 624 of 1910.—Peter Norman Nissen, engineer, temporarily residing at Dinsdale Spa Hotel, Middleton St. George, in the county of Durham, England, and Head Wrightson and Company, Limited, engineers and ironfounders, of Teesdale Ironworks, Thornaby-on-Tees, in the county of York, England. *Improvements in stamp mills.*

No. 625 of 1910.—Robert Seymour Benson, engineer, of "Riverside", Middleton St. George, in the county of Durham, England, and Head Wrightson and Company, Limited, engineers and ironfounders, of Teesdale Ironworks, Thornaby-on-Tees, in the county of York, England. *Improvements in machines for washing coal and other granular material.*

No. 626 of 1910.—Jules Lecoche, electrical engineer, of 41 Schubert road, Putney, London, S.W., formerly of 28 Mexfield road, Putney. *Improvements in and connected with worm gearing.*

No. 627 of 1910.—Hugh Torquil McLeod, assistant engineer, Madras and Southern Mahratta Railway, in the Madras city, Madras district, Madras Presidency. *An Improved type of cast-iron pot sleeper to take flat-footed rails.*

No. 628 of 1910.—Hari Bhao Lupne, merchant, residing at Karad (Southern Mahratta Railway), district Satara. *A machine for shelling and cleaning ground nuts.*

No. 629 of 1910.—Hans Siegwart, architect, of 3 Sempacherstrasse, Lucerne, Switzerland. *A method of manufacture of tubular bodies such as pipes, hollow masts or the like.*

No. 630 of 1910.—J. Stone and Company, Limited, engineers, of Deptford, in the county of Kent, England, and Alfred Henry Darker, engineer in the employ of the said company, late of No. 41 Lee Terrace Blackheath, but now of "Heath View" Montpelier Row, Blackheath, in the county aforesaid. *Improvements in and connected with change over switches for electric lighting and other systems for railway carriages and other vehicles.*

No. 631 of 1910.—Osborne Ernest Wilson, engineer, of Meadow Bank, Kingston road, Didsbury, near Manchester, in the county of Lancaster England. *An improved adjustable bonding stirrup and tie bar for use in reinforced concrete constructions.*

No. 632 of 1910.—Osborne Ernest Wilson, engineer, of Meadow Bank, Kingston road, Didsbury, near Manchester, in the county of Lancaster, England. *An improved construction of adjustable bonding stirrup and tie bar for use in reinforced concrete constructions.*

No. 633 of 1910.—John Moyes, gas engineer, of 13 Bogton Avenne, Cathcart, Glasgow, Scotland, and Charles Alexander Stevenson, civil engineer, of 28 Douglas Crescent, Edinburgh, Scotland. *Improvements in and relating to signalling apparatus.*

No. 634 of 1910.—John Hines, engineer, of Sedlescombe Lodge, Sedlescombe road, St. Leonards on Sea, county of Sussex, England. *Improvements in apparatus for heating, drying and otherwise treating stone and other materials for use on roads and like surfaces.*

No. 635 of 1910.—George W. Beadle, mechanical engineer, a citizen of the United States, residing at 367 Avenue A., Bayonne, New Jersey, United States of America. *Improvements relating to machines for crimping the ends of vessel bodies, and for printing on the outside of said bodies during the same operation.*

No. 2086-*P*.—SPECIFICATIONS of the undermentioned inventions have been filed, under the provisions of the Inventions and Designs Act of 1888, in the office of the Secretary appointed under that Act, and copies have been sent to the Governments of Madras, Bombay, and Burma and the Director of the Department of Land Records and Agriculture, United Provinces of Agra and Oudh. These and other specifications are open to public inspection from 11 A.M. to 4 P.M. daily, and Saturdays 11 A.M. to 1 P.M. at the Secretary's office, 2, Bankshall Street, Calcutta, on payment of a fee of one rupee, and a certified copy of any one of them will be supplied on payment of the fixed expenses of copying :—

No. 83 of 1910.—Munshi Hoosain Buksh, 1st grade sub-overseer, Military Works, Meerut cantonment. *A double acting hand power water lift.* (Specification filed 26 November 1910.)

No. 94 of 1910.—Alexander Spencer, engineer, of 77 and 79 Cannon street, in the city of London, England. *Improvements in central buffer and draw gear apparatus for railway and like vehicles.* (Specification filed 15 November 1910.)

No. 116 of 1910.—The American Box Ball Company, a manufacturing corporation of Indianapolis, Indiana, United States of America. *Amusement apparatus.* (Specification filed 26 November 1910.)

No. 203 of 1910.—Abdul Rahim, son of Karim Bux, blacksmith, Bazar Shafatpota, Amroha, district Moradabad, United Provinces of Agra and Oudh. *Improved street watering cart with an automatic and adjustable spray distributor.* (Specification filed 24 November 1910.)

No. 221 of 1910.—Henry Howard Gardner, manufacturer, of Santa Ana, Orange county, state of California, United States of America. *Improvements in and relating to moulds for cement, concrete pipes and the like.* (Specification filed 26 November 1910.)

No. 222 of 1910.—Erste Triester Reisschal-Fabriks-Aktien-Gesellschaft, of Trieste, Austria. *A process for rendering proteins or substances containing protein soluble.* (Specification filed 26 November 1910.)

No. 228 of 1910.—Joseph Fredrick Walke, coal merchant, c/o Toothill Sharp and Co., Tamarind Lane, Fort, Bombay. *An improved smoke burning furnace.* (Specification filed 21 November 1910.)

No. 229 of 1910.—Alexander Craig, consulting engineer, of Hertford Chambers, Hertford street, Coventry, in the county of Warwick, England. *Improvements in grain mills and the like.* (Specification filed 21 November 1910.)

No. 352 of 1910.—Rice Gas Engine Company, a corporation organized and existing under the laws of the State of New Jersey, United States of America, and having an office at Jersey city, in the county of Hudson, State of New Jersey aforesaid. *Improvements in starting and reversing mechanism for gas engines.* (Specification filed 15 November 1910.)

No. 379 of 1910.—Harold Williamson Lake, of the firm of Haseltine, Lake & Co., Chartered Patent Agents, of 7 and 8 Southampton Buildings, London, in the county of Middlesex, England. *Improvements in and relating to yarn clearers for spinning machines or the like.* (Specification filed 26 November 1910.)

No. 397 of 1910.—Joseph Alexander Panton, superintendent of rolling stock, of 42 Ashdale road, Waterloo, Liverpool. *Improvements relating to brake shoes.* (Specification filed 22 November 1910.)

No. 469 of 1910.—Clancy Metals Process Company, a corporation organized under the laws of the State of New York, of No. 170 Broadway, in the city of New York, county and state of New York, United States of America, engaged in the business of treating ores. *Improvements in the treatment of precious metalliferous ores.* (Specification filed 26 November 1910.)

No. 515 of 1910.—Murdoch McDonald, agricultural implement maker, of Clunes, in the state of Victoria, commonwealth of Australia. *Improvements in railway signalling mechanism.* (Specification filed 22 November 1910.)

No. 516 of 1910.—Duplex Seed Drill Company Proprietary Limited, of No. 47 Queen street, Melbourne, in the state of Victoria, commonwealth of Australia. *Improvements in the sowing of grain and the like along with a fertilizer.* (Specification filed 22 November 1910.)

No. 2087-*P*.—THE fees prescribed in the fourth schedule to the Inventions and Designs Act of 1888 have been paid for the continuance of exclusive privilege in respect of the undermentioned inventions for the periods shown against each :—

No. 265 of 1901.—Fritz Eisenbeis and Ferdinand Garelly, Junior. *Improvements in stone-cutting and drilling machines.* (From 28 January 1911 to 28 January 1912.)

No. 212 of 1902.—Fred Lobnitz. *Improvements connected with rock cutting apparatus.* (From 6 January 1911 to 6 January 1912.)

No. 148 of 1903.—Alfred Joseph Tonge, James Tonge & Elam Eaves *Improvements in hydraulic presses and pumps for mining purposes.* (From 8 December 1910 to 8 December 1911.)

No. 250 of 1903.—Hugo Bremer. *Improvements in electric arc lamps.* (From 13 January 1911 to 13 January 1912.)

No. 176 of 1904.—John Marston Goodwin. *Dumping contrivances.* (From 22 November 1910 to 22 November 1911.)

No. 297 of 1905.—Alexander Crawford Chenoweth. *Improvements in concrete or like constructions.* (From 16 January 1911 to 16 January 1912.)

No. 312 of 1906.—George Westinghouse. *Improvements in elastic fluid turbines.* (From 30 January 1911 to 30 January 1912.)

No. 462 of 1906.—Ozonair, Limited. *Improved apparatus for ozonizing atmospheric air.* (From 3 December 1910 to 3 December 1911.)

No. 541 of 1906.—William Youlten. *Improvements in means for separating dirt and the like from the refuse and waste of cotton cleaning machines and from other materials.* (From 6 December 1910 to 6 December 1911.)

No. 555 of 1906.—John Carbury Holford. *Improvements in typewriting machines.* (From 22 December 1910 to 22 December 1911.)

No. 2088-*P*.—WHEREAS the inventors of the undermentioned inventions have respectively failed to pay, within the time limited in that behalf by the fourth schedule to the Inventions and Designs Act of 1888, the fees hereinafter respectively mentioned, it is hereby notified that under the provisions of section 8, sub-section (2), of the said Act the

exclusive privilege of making, selling and using the said inventions in British India and of authorising others so to do has ceased :—

No. 9 of 1906.—Henry Thomas Simpson Ward. *Improvements in and relating to the sinking of concrete wells and the like.* (Specification filed 28 August 1906.)

No. 85 of 1906.—Emile Gobbi. *Improvements in apparatus for filtering liquids and fluids.* (Specification filed 28 August 1905.)

No. 86 of 1906.—S. Mestitz & Son. *Improvements in dust suction apparatus.* (Specification field 28 August 1906.)

No. 249 of 1906.—Edgar G. Waters. *An improved almirah for sterilising and disinfecting purposes.* (Specification filed 27 August 1906.)

No. 369 of 1906.—Thomas Warsop. *Improvements in or relating to rock drills or other percussion tools.* (Specification filed 30 August 1906.)

No. 548 of 1905.—James Gibson Slater, William Junor, and Thomas Henry Watson. *A certain new and useful improved process for the extraction of gold and silver values from metal bearing matter.* (Specification filed 28 August 1906.)

Fee in respect of the continuance of an exclusive privilege—

4 (*a*) After the filing of the specification and before the expiration of the fourth year from the date of the filing thereof—

The sum of R50 for each of the above inventions.

No. 48 of 1905.—Benjamin Garver Lamme. *Improvements relating to the distribution of electric energy to apparatus capable of being operated by direct and also by alternating currents.* (Specification filed 29 August 1905.)

No. 84 of 1905.—Augustus Rosenberg. *Improvements in and connected with apparatus for the generation of acetylene and other gas.* (Specification filed 28 August 1905.)

No. 126 of 1905.—Henry Colbeck Michell. *Improved manufacture of non-conducting coverings, blocks and slabs suitable for covering steam pipes, boilers and the like and for other purposes.* (Specification filed 30 August 1905.)

No. 164 of 1905.—Luther Peter Fries Tedt. *Improvements in metal sheetpiling.* (Specification filed 2 September 1905.)

No. 198 of 1905.—The International Oxy-Generator Syndicate Limited and Augustus Rosenberg. *Improvements in and connected with illuminating apparatus more especially designed for use in flash-signalling.* (Specification filed 28 August 1905.)

No. 263 of 1905.—William Richard Sumption Jones. *Improvements in or relating to coupling apparatus for railway vehicles.* (Specification filed 30 August 1905.)

No. 264 of 1905.—William Richard Sumption Jones. *Improvements in coupling apparatus for railway vehicles.* (Specification filed 30 August 1905.)

Fee in respect of the continuance of an exclusive privilege—

4 (*b*) After the expiration of the fourth year and before the expiration of the fifth year from the date of the filing of the specification—

The sum of R50 for each of the above inventions.

No. 57 of 1904.—Charles Loxton Rothwell-Jackson and Edward Wilson Hunt. *Improvement in machines for chemicing, souring, bleaching, dyeing, mercerising, washing, or similarly treating textile fabrics in the open state.* (Specification filed 31 August 1904.)

Fee in respect of the continuance of an exclusive privilege—

4 (*c*) After the expiration of the fifth year and before the expiration of the sixth year from the date of the filing of the specification—

The sum of R50 for the above invention.

No. 28 of 1901.—The Linotype Company, Limited. *Mechanism for effecting the distribution of type.* (Specification filed 26 August 1901.)

Fee in respect of the continuance of an exclusive privilege—

4 (*f*) After the expiration of the eighth year and before the expiration of the ninth year from that date—

The sum of R100 for the above invention.

NOTICES.

THE PATENT OFFICE.

2, BANKSHALL STREET, CALCUTTA.

Public room open, 11 A.M. to 4 P.M., Saturdays 11 A.M. to 1 P.M.

1. *All communications* relating to applications for leave to file specifications and for registration of designs under the Inventions and Designs Act (V of 1888), or in continuation of such applications should be addressed to the Patents Secretary, 2, Bankshall Street, Calcutta. Directions for inventors and others are given in the Act Manual (Price R1 or 1*s.* 6*d.*).

2. *Fees* payable under the fourth and sixth schedules must be received in full and in cash at the office within the times allowed by the Act. The office cannot be responsible for any delay attending the collection of cash on cheques. Cheques not payable at Calcutta are subject to commission. Preferably fees should be sent by money order payable at Calcutta to the Patents Secretary.

3. *Trade marks* are not registered and *medicines* are not patented under the Inventions and Designs Act.

4. *Applications* made under the Act are placed for inspection in the public room for 10 days from the date of the *Gazette of India* in which their filing has been notified.

5. *Specifications* of inventions which have been notified as filed in the *Gazette of India* may be inspected on payment of a fee of one rupee at—

Calcutta—Patent Office, 2, Bankshall Street.

Madras—General Record Department, Fort St. George.

Bombay—Record Office.

Rangoon—Record Room of the Revenue Secretary to the Government.

Lucknow—Office of the Director of the Department of Land Records and Agriculture.

6. *Publications* on sale at the Patent Office:—

	Price. R	a.
(*a*) Act Manual, comprising the Inventions and Designs Act (V of 1888) and an explanatory memorandum and directions for the guidance of parties applying for the protection of inventions or designs	1	0
(*b*) Bill to amend the Inventions and Designs Act	1	0
(*c*) Weekly Notifications (extract from the *Gazette of India*)	0	1
Annual subscription with postage	3	0
(*d*) Inventions and Designs for the year 1905	1	0
" " " " 1906	1	0
" " " " 1907	1	0
" " " " 1908	1	0
" " " " 1909	1	0
" " " January to March 1910	0	8
" " " April to June 1910	0	8
" " " July to September 1910	0	8
(*e*) Inventions (consolidated subject-matter index, 1900—1908, and chronological list, 1900—1904)	2	0

H. G. GRAVES,
Secretary under the Inventions and Designs Act, V of 1888.

BOARD OF EXAMINERS.

NOTICES.

Specimens of Persian Manuscripts for the use of candidates for the Degree of Honour and High Proficiency examinations in Persian, published in facsimile by the Board of Examiners, Fort William, under the authority of the Government of India. Price R6. Forwarded V. P. P., on application to the Secretary, Board of Examiners, 4, Park Street.

For the convenience of Civil and Military officers desirous of appearing for examination in oriental languages, the Board of Examiners publish annually a collection of specimen papers set for the examination held by them.* Collections of papers for 1902-1903, 1903-1904, 1904-1905, 1905-1906, 1906-1907, 1907-1908 and 1908-1909 are ready for sale. Price R3 per copy, and may be obtained on application to the Secretary, Board of Examiners, 4, Park Street.

Diwan-i-Sarkhush (official edition), one of the books recommended for the High Proficiency examinations in Persian; obtainable from Board of Examiners' office, price R3 per copy.

The Kalam-i-Urdu, the text-book for the new Proficiency Standard in Urdu, is now ready for issue, price R2-12.

Qaāni, one of the books recommended for the Degree of Honour examination in Persian; obtainable from the Board of Examiners' office, price R7-8 per copy.

"Dewan-i-Andalib," one of the books recommended for the High Proficiency in Persian, is obtainable from the Board of Examiners' office, price R4 per copy.

Glossary to Ar-Rauzatuz-Zakiyah, the new text-book for the Higher Standard Examination in Arabic, price R6-4 per copy, is also obtainable from this office.

"Nazm-i-Muntakhab," one of the new text-books prescribed for the Degree of Honour examination in Urdu, is obtainable from the Board of Examiners' office, price R5 per copy.

"Siyahat-Nama-i Ibrahim Beg," one of the books recommended for the High Proficiency examination in Persian, is obtainable from the office of the Board of Examiners, 20, Park Street, Calcutta, price R5 per copy.

* *N.B.*—The languages in which specimen papers are published are :—
Arabic, Bengali, Hindi, Persian, Sanskrit, Urdu.

W. G. GREY, Major,
Offg. Secretary, Board of Examiners.

SULPHATE OF QUININE AND SULPHATE OF CINCHONIDINE.

Manufactured at the Bengal Government Cinchona Plantation.

These articles are guaranteed to be free from wilful admixture with other Cinchona alkaloids. Quinine can be purchased by Government officers, District and Local Boards. It can also be purchased by Missionaries for *bonâ fide* public purposes. Otherwise it is not sold to private persons or firms. Cinchonidine is for sale to Government officers and to dealers. Both Quinine and Cinchonidine are for sale for cash only and may be obtained from the Superintendent, Royal Botanic Garden, Sibpur, near Calcutta.

The rates for both drugs from 1st April 1910 are as follows :—

SULPHATE OF QUININE.

	R
For quantities of not less than 6 lbs. in one delivery	8-8 per lb.
For any less quantity than 6 lbs. in one delivery	11-8 "

SULPHATE OF CINCHONIDINE.

	R
For quantities of not less than 6 lbs. in one delivery	8 per lb.
For any less quantity than 6 lbs. in one delivery	11 "

Quinine is sold in 1 oz., ¼ lb., ½ lb., 1 lb. and 4 lb. tins.
Cinchonidine is sold in ¼ lb., ½ lb. and 1 lb. tins.

Carriage or postage is in addition to the above prices in every case.

CINCHONA FEBRIFUGE.

Cinchona Febrifuge can be purchased for cash only by Government officers and the general public from the Superintendent, Royal Botanic Garden, Calcutta.

The rates from 1st April 1910 are :—

	Wholesale rate For 6 lbs. or more in one *delivery*.			*Retail rate* For any quantity below *6 lbs. in one delivery*.		
	R	a.	p.	R	a.	p.
16-oz. tins	5	0	0	6	0	0
8 „ „	2	8	0	3	0	0
4 „ „	1	4	0	1	8	0

Carriage or postage extra. Cinchona Febrifuge is sold also by the principal Druggists in Calcutta.

THOMASON CIVIL ENGINEERING COLLEGE, ROORKEE.

NOTIFICATION.

Roorkee, the 10th June 1908.

A Registry Office for men of the undermentioned grades is kept up by the Principal, Thomason College, Roorkee. Officers and employers of labour requiring men are requested to apply to the Principal :—

1. Engineers.
2. Overseers.
3. Sub-Overseers.
4. Draftsmen and Surveyors.
5. Motor Car Drivers.
6. Engine Drivers.
7. Men trained in—
   (*a*) Photo-Mechanical and Lithographic Work.
   (*b*) Workshops (both Electrical and Mechanical sides).

E. ATKINSON, Major, R.E.,
Principal, Thomason College, Roorkee.

NOTICE No. 20.

Sealed tenders for the supply of undermentioned supplies will be received and opened at Karachi at 12 noon on Wednesday, the 14th December 1910, by the Divisional Contract Officer, 4th (Quetta) Division.

NAME OF ARTICLES.	Where required.	Approximate requirement.	Earnest money deposit.
From 1st April	1911 to 31st March 1912.	lbs.	
Meat fresh . . Beef . . .	Karachi	450,000	1,150
Meat fresh . . Mutton . . .	Karachi	90,000	1,150
Meat fresh . . Beef . . .	Hyderabad . . .	215,000	510
Meat fresh . . Mutton . . .	Hyderabad . . .	33,000	510
Potatoes, fresh and of regulation sizes .	Karachi	450,000	375
Ditto ditto .	Hyderabad . . .	210,000	200

2. Further particulars and forms of tenders with schedules of conditions on payment of rupee one per set, can be obtained on application to the Station Supply Officer, Karachi and the Divisional Contract Officer, 4th (Quetta) Division, Quetta.

P. C. SAUNDERS,
Offg. Divisional Contract Officer,
4th (Quetta) Division.

QUETTA:
The 7th November 1910.

TO CONTRACTORS.

Sealed tenders for the supply of Miscellaneous Stores, *i.e.*, Cordage, Cloth, Soap, soft, Timber and other stores from 1st April 1911 to 31st March 1912 will be received by the Superintendent, Ammunition Factory, Dum-Dum, up to 4 P.M. on the 16th December 1910 for consideration of the Director of Ordnance Factories who does not bind himself to accept the lowest or any tender.

2. Forms of "Tender" and "Schedule" of the Stores, for the supply of which tenders are invited, are obtainable on payment of R1 per set on application in writing, and sample of the article to be supplied can be inspected at the Factory, and all further information obtained any day (Sundays and holidays excepted) between the hours of 10 A.M. and 2 P.M. by all who have purchased the forms.

3. Deposit of earnest money at 2 per cent., on the value of stores tendered for, must accompany tenders.

M. WALKER, Lieutenant-Colonel, R.A.,
Superintendent.

AMMUNITION FACTORY OFFICE,
Dum-Dum, 26th November 1910.

Notice No. C-8—7866.

Sealed tenders for the supply of firewood for ration and bakery for British Troops at all Military Stations in the 8th (Lucknow) Division, and for charcoal at all the stations in the Presidency Brigade from 1st April 1911 to 31st March 1912 will be received by the Divisional Supply and Transport Officer, 8th (Lucknow) Division, Lucknow, up to 12 noon on the 16th, 18th, and 20th January 1911 respectively.

2. Further particulars, forms of tenders and schedules are obtainable on application in writing to the above officer up to 7th January 1911 on payment of one rupee for each set of forms. No tenders will be received except on forms issued from this office.

H. W. W. BROOKE, Major,
for Divisional Supply and Transport Officer,
8th (Lucknow) Division.

DIVISIONAL SUPPLY AND TRANSPORT OFFICE
8TH (LUCKNOW) DIVISION;
Lucknow, the 1st December 1910.

SUPPLY AND TRANSPORT CORPS. NOTICE No. 24.

The Divisional Contract Officer, 4th (Quetta) Division, Quetta, will receive and open tenders at 12 noon on Monday, the 19th December 1910, at Quetta for the supply of fresh meat from 1st April 1911 to 31st March 1912.

Beef.	Mutton.	Earnest money deposit.
lbs.	lbs.	Rs.
1,400,000	250,000	3,850

2. Further particulars and forms of tenders with Schedules of conditions on payment of rupee one per set can be obtained on application from the Divisional Contract Officer, Quetta.

H. F. E. MACMAHON, Captain,
Offg. Divl. Contract Officer, 4th (Quetta) Division.

QUETTA:
The 23rd November 1910.

NOTICE.

The Divisional Supply and Transport Officer, 8th (Lucknow) Division, Lucknow, is receiving tenders up to 11th January 1911 for the supply of kerosine oil required for the 7th and 8th Divisions for the official year 1911-12.

2. Forms of tenders and schedules and all further particulars can be obtained on application to the above officer up to 5th January 1911.

3. No tender will be received except on forms obtainable from the above officer on payment of a fee of one rupee for each set.

DEPARTMENT OF ISSUE OF PAPER CURRENCY.

Calcutta, the 3rd December 1910.

Abstract of the accounts of the Department of Issue of Paper Currency on the 30th November 1910.

	Total amount of notes in circulation.			Reserve.										Remarks.
				Coin and Bullion.							Securities (Purchase price).		Total.	
				In India.			In England.		In Transit between India and England.					
	In Reserve Treasuries.	Elsewhere.	Total.	Silver Coin.	Gold Coin and Bullion.*	Silver Bullion under coinage.†	Gold Coin and Bullion.	Silver Bullion.	Gold Coin and Bullion.	Silver Bullion.	Held in India.	Held in England.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	
	R	R	R	R	R	R	R	R	R	R	R (a)	R (b)	R	
Calcutta	3,22,35,920	18,12,69,475	21,35,05,395	7,23,50,621	*13,36,020	7,86,970	6,36,75,000	...	...	...	9,99,99,946	2,00,00,000	25,81,48,557	(a) Nominal value—R10,20,81,500. (b) Nominal value—R2,24,24,292.
Cawnpur	...	2,79,19,130	2,79,19,130	3,88,63,830	24,75,285	...	...	...	...	...	...	...	4,13,39,115	
Lahore	...	3,37,29,385	3,37,29,385	2,85,68,733	35,14,305	...	...	...	...	...	...	...	3,20,83,038	
Bombay	39,31,240	14,68,16,090	15,07,47,330	5,67,03,118	2,60,64,652	...	...	...	...	...	...	...	8,27,67,770	
Karachi	...	1,47,03,050	1,47,03,050	39,28,000	7,82,760	...	...	...	...	...	...	...	47,10,760	
Madras	26,61,780	5,22,34,505	5,48,96,285	2,99,82,180	35,82,780	...	...	...	...	...	...	...	3,35,64,960	
Rangoon	...	2,54,73,750	2,54,73,750	6,72,60,875	17,69,250	...	...	...	...	...	...	...	6,90,30,125	
	3,88,28,940	48,21,45,385	52,09,74,325	29,76,57,357	3,95,25,052	7,86,970	6,36,75,000	...	...	...	9,99,99,946	2,00,00,000	52,16,44,325	
Deduct—Withdrawn from circulation by Foreign Circles and in course of remittance to Circles of Issue			*Nil*	*Deduct*—Amount due on Bills drawn by one circle on another									6,70,000	
Total Circulation R			52,09,74,325								Total Reserve R		52,09,74,325	

* There was no transfer of Gold between the Paper Currency Reserve and the Gold Standard Reserve during the week ending 30th November 1910.

† The silver held in the Gold Standard Reserve amounted on the 30th November 1910 to 380 lakhs in coined rupees.

R. W. GILLAN,
Head Commissioner of Paper Currency.

DEPARTMENT OF ISSUE OF PAPER CURRENCY.

Calcutta, the 9th December 1910.

Abstract of the accounts of the Department of Issue of Paper Currency on the 7th December 1910.

	Total amount of Notes in Circulation			Reserve.										
				Coin and Bullion.							Securities (Purchase Price).			
				In India.			In England.		In Transit between India and England.					
	In Reserve Treasuries.	Elsewhere.	Total.	Silver Coin.	Gold Coin and Bullion.*	Silver Bullion under Coinage.†	Gold Coin and Bullion.	Silver Bullion.	Gold Coin and Bullion.	Silver Bullion.	Held in India.	Held in England.	Total.	Remarks.
	1	2	3	4	5	6	7	8	9	10	11	12	13	
	R	R	R	R	R	R	R	R	R	R	R (a)	R (b)	R	
Calcutta	1,83,04,300	18,46,16,300	20,29,20,600	7,29,46,911	*11,69,475	7,86,970	6,36,75,000	...	...	...	9,99,99,946	2,00,00,000	25,85,78,302	(a) Nominal value—R10,20,81,500 (b) Nominal value—R2,24,24,292
Cawnpore	...	2,71,12,860	2,71,12,860	3,84,23,710	20,75,805	..	..	...	...	...	..	...	4,05,01,515	
Lahore	...	3,43,45,065	3,43,45,065	2,64,75,708	23,22,795	...	...	...	...	..	...	...	2,87,98,503	
Bombay	29,13,470	14,92,04,745	15,21,18,215	5,20,83,353	3,08,05,807	...	...	...	...	...	...	...	8,28,89,160	
Karachi	...	1,47,88,510	1,47,88,510	32,31,180	7,67,460	...	..	...	...	...	...	...	39,98,640	
Madras	10,81,605	5,59,16,795	5,69,98,400	2,95,97,145	34,12,005	...	...	...	...	...	.	...	3,30,09,150	
Rangoon	...	2,84,49,900	2,84,49,900	6,70,06,010	16,34,775	...	...	...	...	..	...	...	6,86,40,785	
	2,22,99,375	49,44,34,175	51,67,33,550	28,97,66,017	4,21,88,122	7,86,970	6,36,75,000	...	...	...	9,99,99,946	2,00,00,000	51,64,16,055	
Deduct—Withdrawn from circulation by Foreign Circles and in course of remittance to Circles of Issue			6,12,495	*Deduct*—Amount due on Bills drawn by one circle on another									2,95,000	
Total Circulation R			51,61,21,055								Total Reserve R		51,61,21,055	

* There was no transfer of Gold between the Paper Currency Reserve and the Gold Standard Reserve during the week ending 7th December 1910.

† The Silver held in the Gold Standard Reserve amounted on the 7th December 1910 to 3·80 lakhs in coined rupees.

R. W. GILLAN,
Head Commissioner of Paper Currency.

BANK OF BENGAL—PUBLIC DEBT OFFICE.

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 30th November 1910.

PARTICULARS.	3 PER CENT.	3½ PER CENT. LOANS							4 PER CENT. LOANS							4½ PER CENT. LOANS			GRAND TOTAL.
	of 1896-97.	of 1842-43.	of 1854-55.	of 1865.	of 1879.	of 1900-01.	...	TOTAL.	of 1832-33.	of 1835-36.	of 1842-43.	of 1854-55.	Transfer of 1865.	Reduced 4 per cent. Loan of 1879.	TOTAL.	of 1870.	TRANSFER LOAN OF 1879, 4½ PER CENT. PORTION.	TOTAL.	
Balance of 15th November 1910 .	43,83,900	1,29,25,100	8,84,75,900	1,93,91,500	99,14,800	24,89,100	...	13,31,96,400	6,933	5,000	...	500	38,800	2,500	53,733	...	29,500	29,500	13,76,63,533
Add—																			
Amount of transferred to in London	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Amount issued in London by Conversion under Notification No. 6201A, dated 3rd November 1908, up to 28th October 1910 . . .	...	...	...	...	...	30,900	...	30,900					...	...	...	...	...	...	30,900
Amount enfaced at Madras up to .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Amount enfaced at Bombay up to 19th November 1910 .	...	...	5,000	...	...	...	...	5,000	...	...	...	...	...	...	...	...	..	...	5,000
Amount enfaced at Calcutta between 16th and 30th November 1910 . . .	...	...	37,000	1,000	...	6,100	...	44,100	...								...	...	44,100
	43,83,900	1,29,25,100	8,85,17,900	1,93,92,500	99,14,800	25,26,100	...	13,32,76,400	6,933	5,000	...	500	38,800	2,500	53,733	...	29,500	29,500	13,77,43,533
Deduct—																			
Amount written off in the London Registers	36,000	1,000	5,19,500	75,000	52,000	1,25,000	...	7,72,500	...		..	...	.	...	...	...	...	...	8,08,500
Balance on 30th November 1910.	43,47,900	1,29,24,100	8,79,98,400	1,93,17,500	98,62,800	24,01,100	...	13,25,03,900	6,933	5,000	..	500	38,800	2,500	53,733	...	29,500	29,500	13,69,35,033

NOTE.—From 9th June 1867 to 30th Sept. 1910 Enfaced from India 12,126 lakhs, re-transferred from London 12,087 lakhs.
" 1st Oct. 1910 " 15th Oct. " ditto ... ditto 3 "
" 16th " " " 31st " " ditto 1 lakh ditto 5 "
" 1st Nov. " " 15th Nov. " ditto 2 lakhs ditto 8 "
" 16th " " " 30th " " ditto 1 lakh ditto 8 "

12,130 lakhs. 12,111 lakhs.
12,111 "

Balance against India 19 lakhs.

PUBLIC DEBT OFFICE,
BANK OF BENGAL;
Calcutta, 1st December 1910.

L. G. DUNBAR,
Secretary and Treasurer.

BANK OF BENGAL.

Statement of the Affairs of the Bank of Bengal for the week ending 6th December 1910.

LIABILITIES.

	R	a.	p.	R	a.	p.
Capital paid up				2,00,00,000	0	0
Reserve Fund				1,73,00,000	0	0
Public Deposits at Head Office	60,51,089	12	0	1,77,91,090	2	7
Public Deposits at Branches	1,17,40,000	6	7			
Other Deposits at Head Office and Branches				16,47,87,568	0	11
Bank Post Bills, etc.				5,94,623	7	9
Sundries				20,00,955	10	7
RUPEES				22,24,74,237	5	10

ASSETS.

	R	a.	p.	R	a.	p.
Government Securities				2,59,70,480	0	0
Other authorized Investments				93,34,844	0	0
Loans on Government and other authorized Securities				3,85,40,977	3	1
Accounts of Credit on Government and other authorized Securities				5,23,79,205	6	2
Bills discounted and purchased				3,15,08,970	14	3
Balances with other Banks				24,54,300	10	10
Bullion				..		
Dead Stock				21,83,601	7	0
Stamps				12,249	7	1
Sundries				61,114	10	5
				16,24,45,743	10	10
Cash and Currency Notes at Head Office	* 1,93,37,833	4	3	6,00,28,493	11	0
Cash and Currency Notes at Branches	† 4,06,90,660	6	9			
RUPEES				22,24,74,237	5	10

* Includes Sovs. & ½ Sovs., value R3,00,555 0 0
† Do. do. do. R3,67,807 8 0

R6,68,362 8 0

By order of the Directors,

BANK OF BENGAL;
Calcutta, 8th December 1910.

D. S. McCLURE,
Offg. Chief Accountant.

L. G. DUNBAR,
Secretary and Treasurer.

Rate for Demand Loans 7 per cent.
Percentage 32·41.

DEPARTMENT OF MINES IN INDIA.

NOTICE.

INDIAN MINES ACT, 1901.

Dhanbaid, 21st November 1910.

An examination for first and second class coal mine managers' certificates of competency under the rules applying to coal mines will be held at the office of the Mines Department at Dhanbaid on the 23rd and 24th February 1911.

Only persons who have had practical experience in coal mines are eligible to sit for the examination. Necessary instructions will be supplied to intending candidates on application to the undersigned and on their stating their experience.

Applications received after the 11th February 1911 will not be considered.

G. F. ADAMS,
Offg. Chief Inspector of Mines in India.

STATEMENT OF SILVER OPERATIONS AT THE CALCUTTA AND BOMBAY MINTS FOR THE PERIOD FROM 23RD TO 30TH NOVEMBER 1910.

(In Lakhs of Standard Tolas.)

Name of Mints.	Coinage of British India Government Coins.													Coinage of British Dollars.			Subsidiary Coinage for the Straits Settlements Government.		
	Receipts.				Coinage.			Balance of Bullion and Coin.											
	Purchased Silver.	Withdrawn and uncurrent coins from Treasuries, etc.	Native State coins.	Total.	New rupees and small silver coins delivered to Treasuries or Currency Department.	New rupees made over to Native States.	Total.	New coin ready for delivery.	Gold Standard Reserve.	Currency Bullion.	Other Government Bullion.	Withdrawn and uncurrent coins.	Total.	Receipt of Bullion for Dollar Coinage.	Dollar coined and paid over.	Closing balance of Bullion.	Receipt of Bullion for subsidiary coinage.	Subsidiary coins coined and paid over.	Closing balance of Bullion.
Calcutta . .	...	8	...	8	4	...	4	1	180	11	14	7	213	...	...	..	...	...	...
Bombay* .	...	4	...	4	7	...	7	1	200	...	18	9	228	...	7	5	...	...	1

* Silver tendered for British Dollar Coinage but not brought to Account . . 5

G. H. WILLIS, Captain, R.E.,
Offg. Master of the Mint.

HIS MAJESTY'S MINT;
Calcutta, the 7th December 1910.

INDIAN TELEGRAPH DEPARTMENT.

NOTIFICATIONS.

Calcutta, the 7th December 1910.

No. 30-G.—Mr. J. H. Curtis, Assistant Superintendent, has been granted by His Majesty's Secretary of State for India a further extension of furlough on medical certificate for four months together with extraordinary leave without pay on medical certificate for two months with effect from the 26th December 1910 in continuation of the leave notified in this Department's Notification No. 22-G., dated the 25th August 1910.

F. E. DEMPSTER,
Offg. Director General of Telegraphs.

The 8th December 1910.

No. 33-T.—Offices reported opened and closed during the period 23rd November to 6th December 1910 :—

Name of office.	Where situated.	Date.	Remarks.
	Government Telegraph Offices.		
Char Mugria	Eastern Bengal and Assam	1st December 1910	Opened.
Gurguri	North-West Frontier	19th October 1910	"
Khaga	United Provinces	1st December 1910	"
Kharian	Punjab	21st November 1910	"
Mailpati	Madras	1st " "	"
Nagpur Church Road	Central Provinces	21st " "	"
Neyyoor	Madras	15th " "	"
Sabour	Bengal	31st October 1910	"
Sarai Aurangabad	Punjab	16th November 1910	"
	Railway Telegraph Offices.		
Madhada	Bhavnagar Gondal Junagad Porbander Railway	16th November 1910	Opened.
Palitana	Ditto Ditto	16th " "	"

The following alterations in the names of Telegraph Offices are notified :—

"Calcutta Exchange" instead of "Calcutta Royal Exchange."

"Dankaur, E. I Railway," instead of "Sikandarabad, United Provinces, E. I. Railway."

H. S. STYAN,
Director, Traffic Branch.

DIRECTOR-GENERAL, INDIAN MEDICAL SERVICE.

NOTIFICATIONS.

Simla, the 30th November 1910.

No. 161.—No. 1257, 1st class Sub-Assistant Surgeon M. Kelu, Indian Subordinate Medical Department, Madras, is granted six months' leave with effect from the 17th October 1910. The first 60 days will be on full pay. His services will, on expiry of his leave, be replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India.

The 2nd December 1910.

No. 162.—The services of Assistant Surgeon W. H. Thipthorp, I.S.M.D., Bengal, are replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India, after expiry of the three months' leave granted to him with effect from the 13th September 1910, on termination of his tour of service in British East Africa.

The 5th December 1910.

No. 163.—The services of 14th Class Assistant Surgeon P. S. Bedell, Indian Subordinate Medical Department, are placed at the disposal of the Medical Store-keeper to Government, Calcutta, with effect from the 13th November 1910.

No. 164.—The services of 2nd Class Assistant Surgeon A. P. Lopez, Indian Subordinate Medical Department, are replaced at the disposal of the Principal Medical Officer, His Majesty's Forces in India, with effect from the 16th September 1910.

B. G. SETON, Major, I.M.S.,
for Director-General, Indian Medical Service.

SURVEY OF INDIA—NORTHERN CIRCLE.

NOTIFICATION.

Mussoorie, the 3rd December 1910.

No. 15.—Mr. H. H. B. Hanby, Extra Assistant Superintendent, 4th grade, Survey of India, is granted privilege leave for three months under article 260, Civil Service Regulations, from 1st December 1910, or such subsequent date as he may avail himself of same.

W. G. BYTHELL, Bt. Colonel, R.E.,
Superintendent, Northern Circle.

AGENT TO THE GOVERNOR GENERAL IN CENTRAL INDIA.

NOTIFICATIONS.

Central India Agency, Indore, the 2nd December 1910.

No. 2835-*D*.-2-10—Notification No. 1532-D., dated the 9th July 1910, granting to Major J. H. Hugo, I.M.S., Agency Surgeon in Bundelkhand, privilege leave for six weeks with effect from the 20th July 1910 or subsequent date, is hereby cancelled.

The 3rd December 1910.

No. 2846-*D*.—65-10.—With reference to Notification No. 2668-D., dated the 15th November 1910, Major W. C. Anderson made over charge of the office of Cantonment Magistrate, Mhow, to Major R. N. Morris on the afternoon of the 21st November 1910.

By order,
V. GABRIEL,
First Assistant to the Agent to the Governor General in Central India.

CENTRAL INDIA ADMINISTRATION—PUBLIC WORKS DEPARTMENT.

NOTIFICATION.

LOCAL ADMINISTRATION'S ORDERS.

Indore, the 3rd December 1910.

No. 4404.—The Hon'ble the Agent to the Governor General in Central India is pleased to declare Mr. Radha Kishen, Sub-Engineer, 3rd grade, to be a Gazetted Officer in accordance with the circular of the Government of India in the Public Works Department, No. 13-P.W., dated the 19th July 1910.

J. P. BLAKEWAY, Major, R.E.,
Secretary in the Public Works Department, Central India.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

(In all cases where reference is made to Chapters, Sections, pages or lines, thus Chapters I—IX, the reference is to be understood as inclusive.)

MATRICULATION EXAMINATION, 1913.

ENGLISH.

The following works are recommended to indicate the standard up to which students will be expected to have read :—

Prose.

Lal Bihari De... ... Folk Tales of Bengal.
H. L. Havell ... Stories from the Odyssey (G. Harrop).
Scott ... ... Readings from the Waverley Novels, Vol. I (published by Messrs. Sarkar & Co.)
Kingsley ... ... Heroes.
Defoe ... ... Robinson Crusoe.
G. Kupfer ... ... Legends of Greece and Rome (G. Harrop).
Arabian Nights, edited by Andrew Lang (Longmans, Green & Co.)
Animal Story Book, edited by Andrew Lang (Longmans, Green & Co.)
Washington Irving ... Rip Van Winkle; Legend of the Sleepy Hollow.
Grimm ... ... Popular Stories.
Lamb's Tables from Shakespeare.

Poetry.

Macaulay ... ... Lays of Ancient Rome.
Jennings ... ... English Poems, Part 1 (Macmillan).
Palgrave ... ... Children's Treasury, Part I (Macmillan).
Lahiri's Select Poems, Revised edition, published by the Calcutta University.

VERNACULAR COMPOSITION.

BENGALI.

(Books recommended to be read as presenting models of style).

Iswarchandra Vidyasagar ... Sitar Banabas.
Rajanikanta Gupta ... Pratibha.
Chandranath Basu ... Savitri.
Tarakumar Kaviratna .. Katha Sar (omitting the poetical portions).
Dineschandra Sen ... Sati.
Bireswar Pande ... Aryya Siksha.

HINDI.

(Books recommended to be read as presenting models of style).

Balbharat ... Indian Press, Allahabad.

Upadesa Kusumakar (excluding Poetry pieces) Khadgavilas Press, Bankipur.

URIYA.

(Books recommended to be read as presenting models of style).

Mrityunjay Kavyatirtha ... Prabandhapatha.
Madhusudan Rao ... Prabandhamala.

ASSAMESE.

(Books recommended to be read as presenting models of style).

Satyanath Borah ... Sahitya-bichar.
Lakshminath Bezborah ... Sadhu Kathar Kuki.
Hemchandra Baruah ... Pathamala.

BURMESE.

(Books recommended to be read as presenting models of style).

Mahazanakka.
Withandaya.
Temi.

URDU.

(Books recommended to be read as presenting models of style).

1. Urdu-i-Mualla.
2. Ibn-ul-Waqt.
3. Al Mamun.
4. Mitadu 'E-rasul, by a daughter of Maulvi Obeidullah.
5. Ek Khatun ki Musibatain by Akhtar.

MATHEMATICS.

No text-books are prescribed or recommended. The subject is to be studied in accordance with the Syllabus prescribed in the Regulations of the University.

SANSKRIT.

The following portions of the Calcutta University Sanskrit Selections for 1911 :—

Part I.

Panchatantram and Hitopadesa	Pages 1—3, 29—84.
Vishnupuranam	„ 97—108.

Part II.

Sitaharanam	Pages 117—135.
Dhritarashtrabilapa	„ 199—209.

GRAMMAR.

Elementary Sanskrit Grammar to be shortly published by the University.

PALI.

Prose.

Andersen's Pali Reader ...	Pages 1—43, omitting Radha Jataka, Nacca Jataka and Sussondi Jataka.

Poetry.

Dipavamsa	Bhanavaras, I—V.
Khuddaka Patha ...	Mangala Sutta.

GRAMMAR.

Balavatara	Edited by Mr. Dharmananda Kosambi (in preparation).

PERSIAN.

University Selections compiled and edited by Dr. E. D. Ross, PH D, for the Matriculation Examination.

Portions to be read to be notified hereafter.

PERSIAN GRAMMAR.

The following books are recommended :—

Dastur-i-Parsi-Amoz, Part I, *or* Miftah-ul-Quwaid.

ARABIC.

University Selections compiled and edited by Dr. E. D. Ross, PH. D.

ARABIC GRAMMAR.

A book on Arabic Grammar to be published by the University for the Matriculation and Intermediate Examinations.

HEBREW.

(*To be notified hereafter.*)

ARMENIAN.

Elishe's History of the War of the Vardanians, Parts I and II.
Elishe Vardapiet Doorian's "Course of Classical Armenian", Part I (Prose and Verse).

GREEK.

Xenophon	...	Hellenica, Book I.
Lucian	...	Vera Historia, Book I (School Edition).
Euripides	...	Troades.
New Testament	...	The Gospel according to St. Mark, Chapter VII to the end.

LATIN.

Cæsar	...	De bello Gallico, Books III and IV.
Virgil	...	Aeneid, Book IV.

FRENCH.

Souvestre	...	Un Philosophe Sous les Toits.
Spencer	...	First Book of French Poetry.

BENGALI.

(*For the female candidates*).

Iswarchandra Vidyasagar	...	Sakuntala (Expurgated Edition).
Akhsyakumar Datta	...	Charupatha, Part II.
Hemchandra Banerjee	...	Poetical Selections (omitting the Introduction).

GRAMMAR.

Any of the following:—

Nakuleswar Vidyabhushan	Bengali Grammar (new edition).
Prasannachandra Vidyaratna	Sahitya Prabes.
Hrishikesh Sastri ...	Bengali Grammar.
Matilal Chakrabarti ...	Sahityabodh Vyakaran.

HISTORY.

History of India.

The following books on Indian History are recommended to indicate the standard of knowledge required:—

Adharchandra Mookerjee	...	A Short History of the Indian People, revised edition, 1910.
Haraprasad Sastri	...	History of India (revised edition, 1907 or later).
Sir William Hunter	...	Brief History of the Indian Peoples.
R. C. Dutt	...	A Brief History of Ancient and Modern India.
A. F. Rudolf Hoernle and H. A. Stark	...	History of India (Hindu Period only).
C. R. Wilson	...	History of India, revised edition (British Period only).
Karim and Ghosh	...	Students' History of India (revised edition, 1910, Hindu Period only).
Vincent A. Smith	...	The Students' History of India.

Administration and Progress of India under British Rule—

N. N. Ghose	...	England's Work in India.

GEOGRAPHY.

The following books are recommended as indicating the methods of study and the standard of knowledge required:—

A. J. Herbertson	...	The Oxford Geographies, Vol. II.
J. B. Reynolds	...	Asia.
G. Patterson ...	...	Geography of India, Part I (published by Christian Literature Society, 1909).
Blanford ...	...	The Rudiments of Physical Geography for the use of Indian Schools.

The World with fuller treatment of India (Longman's Geographical Series for India, Book II).

Blanford ... ... Elementary Geography of India, Burma and Ceylon.

J. F. Unstead ... The Practical Geography, Parts I and II.

The following book is recommended for the use of teachers in connection with the teaching of "Sand Modelling" in the lower classes of schools :—

A. E. Frye ... ... The Child and Nature.

Every school that intends to undertake instruction in Geography for the Matriculation Examination is required to possess the apparatus mentioned in the following list :—

I.—The total cost need not exceed Rs. 150—

1. A measuring tape.
2. A magnetic compass.
3. Squared paper and tracing paper.
4. Clay, dry sand, paper pulp or plasticine for modelling.
5. A globe, not less than 14 inches in diameter, with writing surface, and with lines of latitude and longitude, and outlines only of the land-masses, marked upon it.
6. A map of the school locality on a scale of 4″ or 6″ = 1 mile.
7. A map of the district in which the school is situated on the scale 1″ = 1 mile.
8. A map of the Division in which the school is situated on the scale 1″ = 4 miles.
9. A map of the Province.
10. A map of India.

(*N.B.*—All these maps should be coloured to indicate the height of the land above sea-level.)

11. A relief map of India.
12. Maps of India showing the most important distributions, *e.g.*, Temperature and Rainfall, Density of Population, Forest, Pasture, and Agricultural land, Minerals, Industries, Railways and Canals, Political Divisions.
13. Physical maps of the continents and of the British Isles.

It is essential that the students should be provided with atlases, or with the necessary hand-maps. Maps for school work should not contain too much detail, or be crowded with names.

II.—The following additional equipment is recommended when it can be provided :—

1. A wet and dry bulb thermometer.
2. A barometer.
3. A rain gauge.
4. A large globe coloured to indicate land relief and ocean depths.
5. A relief globe.
6. Small hand globes for the use of pupils.
7. Hand maps for use in class.
*8. A relief map of the Province.
9. A map of the World on Mollweide's equal area projection.
10. A geological map of India.
11. A small collection of typical rocks, in particular those of the Province and of India.
12. A small museum of typical products.
13. The Statistical Atlas of India.
14. A good standard atlas.
15. A meteorological atlas.
16. Mill's International Geography.
17. A geographical gazetteer.
18. Geographical wall pictures.

The total cost of this supplementary equipment need not exceed Rs. 400, and can be reduced if schools will make their own collections of rocks and typical products.

III. (1) Valuable information regarding geographical equipment and all other matters connected with the teaching of geography is to be found in the Geographical Teacher, the organ of the Geographical Association, published three times a year, at one shilling a copy.

(2) Globes of all kinds are made by George Philip and Son, London, W. and A. K. Johnston, London, and Messrs. Ruddiman Johnston, London.

* The attention of teachers is requested to the raised maps of Bengal and Eastern Bengal and Assam made of paper pulp prepared by Babu Kailas Chandra Datta, Head Pandit, Habiganj Government Girls' School, Sylhet, and sold for Rs. 7 and Rs. 5 respectively.

Small hand Globes of German make can be obtained through the Calcutta School Book Society for about a rupee each.

(3) The "Comparative" series of large wall maps of the continents published by George Philip and Son is good and up to date; so also are the Orographical wall maps published by Edward Stanford. Messrs. Ruddiman Johnston publish a series of smaller wall maps which includes maps of India illustrating various distributions.

Messrs. Nelson's wall atlases are good. Mr. S. B. Chatterjee publishes District maps; also ordinary and relief maps of the Province.

Babu L. M. Basu, the drawing master of the Dacca Collegiate School, has published good relief maps of Eastern Bengal and Assam and of India.

The Vidal-Lablache French wall maps on strong card board, named on one side, and the same map without names on the reverse, published by Armand Colin, Paris, are good and cheap. They measure 46 inches by 39 inches and can be delivered in Calcutta for Rs. 4-14 each.

(4) The hand maps, coloured to indicate relief, published by the Diagram Company, West Barnes Lane, New Malden Surrey, at one penny each, are the best of their kind.

The uncoloured half-penny maps, showing river systems and a few towns, published by the same Company, are excellent for class use.

The Autograph hand maps, with hill shading in brown, published by Edward Stanford, London, at one penny each, are very good, and are larger than the Diagram Company's hand maps. The 15 inches map of the World on Mollweide's equal area projection is especially to be commended.

(5) Wall pictures of considerable artistic merit are published by Messrs. Edward Arnold of Leeds, Messrs. Hachette of Paris, and Messrs. Hölzel of Vienna. They cost, delivered in India, from two to three rupees each.

Map lantern slides, and view slides especially prepared for geography teaching, are sold by the Diagram Company for two or three shillings each.

6. The best meteorological atlas published in Britain is Bartholomew's, and the most recent geographical gazetteer in English is that published by J. B. Lippincott of Philadelphia and London.

ELEMENTARY MECHANICS.

No text-books are prescribed or recommended.

The following list of apparatus is prescribed as indicating the approximate requirements of a recognised High School seeking to teach Elementary Mechanics for the Matriculation Examination:—

Plumb-line and level.
Simple Lever (including brass slotted weights).
Roman Steelyard.
Lecture apparatus for experiments on moments.
George's New Atwood's Machine
Stop-watch.
Glazebrooke's apparatus (to demonstrate movement of a body).
Hick's Ballistic Balance.
Compound Wheel and Axle.
4 Single brass Pulleys.
2 " " "
2 Triple " "
Weston Differential Pulley Blocks ($\frac{1}{2}$ ton).
16 feet of chain at 6*d.* per foot.
Inclined Plane.
Parallelogram of Forces apparatus.
Wall Crane.
Becker's New Physical Balance.
Set of Gramme Weights (200 grams to 1 mgr.)
2 Composition-Ivory Balls.

NOTE.—The above list is not exhaustive, and much of it might be replaced by simpler forms that could probably be made far more cheaply by any clever *mistry* under proper supervision. In most cases, however, it will probably be found advantageous to buy such a set as indicated in the list specially for demonstration purposes, and subsequently to develop simplified duplicates, illustrating the same principles, which the boys should be given opportunity actually to experiment with on their own individual accounts or working in pairs.

G. THIBAUT,
Registrar, Calcutta University.

SENATE HOUSE,
The 3rd December, 1910.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

(In all cases where reference is made to Chapters, Sections, Pages or Lines, thus Chapters I—IX, the reference is to be understood as inclusive.)

INTERMEDIATE EXAMINATION IN ARTS, 1913.

ENGLISH.

Poetry.

Wordsworth	Selections, by Webb, Part I.
Milton	Comus.
Scott	Lay of the Last Minstrel.
Coleridge	Rime of the Ancient Mariner.

Prose.

Froude	English Seamen of the Sixteenth Century
Collins	Odyssey (Ancient Classics for English Readers).
Macaulay	Essay on Addison.

A paper will be set on Essay, Prosody and Rhetoric, and some questions will be set on unseen passages from works of the same standard of difficulty as those prescribed for the Matriculation Examination.

BENGALI.

(Books recommended to be read as presenting models of style.)

Iswarchandra Vidyasagar ...	Mahabharat, Anukramanika and Parbasangraha Adhyaya.
Kaliprasanna Ghose	Prabhatchinta.
Saratchandra Sastri	Dakshinapatha Bhraman.
Sasibhushan Sen	Karmakshetra.
Nanilal Banerjee	Basanter Rani.
Rajendranath Vidyabhushan ...	Kalidas.

HINDI.

(Books recommended to be read as presenting models of style.)

Harishchandra	Charitavali.
Prapatnarayan Misra	Sangit Shakuntal
Gadadhar Singh	Kadambari.
Lala Sitaram	Nitibatika.

ASSAMESE.

(Books recommended to be read as presenting models of style.)

Selections from Katha Bhagavat.

1. Brahmar Moha-nasa. | 2. Samanta Harana.

Selections from Jonaki.

1. Jivaner Amiya. | 2. Manava-mahatva.

Selections from Usha.

1. Sarai Ghater Yuddha. | 2. Dhana aru dhanar vyavahara
3. Jivaner uddesya ki?

BURMESE.

(Books recommended to be read as presenting models of style.)

1. Maha-Janaka Jataka Vathu.
2. Vedura-Jataka Vathu.
3. Sandakumara Jataka Vathu.
4. U. Ponya Myttaza.
5. Mahalankara Vathu.
6. Thamane Gyaw Loba Vathu.

URIYA.

(Books recommended to be read as presenting models of style.)

Charupath, Part III, translated by Bichhanda Patnaik.
Ramsankar Ray ... Bibasini.
Sasibhusan Ray ... Dakhinatya Bhraman

Adiparba of Mahabharata (Anukramanika and Parbasangrahadhyaya), translated by Gobinda Chandra Mahapatra,

URDU.

(Books recommended to be read as presenting models of style.)

1. Naisangi Khayal by Azad | 2. Hayat-i-Sadi.
3. Taukat-ul-Nusuh.

SANSKRIT.

Poetry.

Raghuvansam ... Cantos I and XIV, with Mallinatha's Commentary.
Bhattikavyam ... Cantos I and XII.

PROSE.

Mahabharatam and Dasa Kumaracharitam, expurgated edition by Pandit Tarakumar Kaviratna, pages 7—38 and 99—119.

BENGALI.

For female candidates.

Kaliprasanna Sinha ... Mahabharata (Nalopakhyan).
Michael Madhusudan Datta Meghnad-badha, Canto IV.
Nabinchandra Das ... Raghuvansa, Canto XIII.
Akshaykumar Datta ... Charupath, Part III.

PALI.

Andersen's Pali Reader.

The course also includes a knowledge of Pali Grammar of higher standard than that required at the Matriculation Examination.

GRAMMAR RECOMMENDED.

E. Muller ... ... Pali Grammar,

or

Satischandra Vidyabhushana Kaccayana.

ARABIC.

University Selections compiled and edited by Dr. E. D. Ross, PH. D

ARABIC GRAMMAR.

A book on Arabic Grammar to be published by the University for the Matriculation and Intermediate Examinations.

PERSIAN.

University Selections compiled and edited by Dr. E. D. Ross, PH. D.

CLASSICAL ARMENIAN

PROSE.

Moses of Khoren's History of Armenia, Part II.

POETRY.

Elishe Vardapiet Doorian's Course of Classical Armenian, Part II.

The course also includes Armenian Grammar, of which a fuller knowledge will be required than at the Matriculation Examination.

GREEK.

Herodotus	Books VIII and IX.
Plato	Crito.
Homer	Odyssey, Books V and VI.

LATIN.

Cicero	Pro Lege Manilia.
Livy	Book XXI.
Horace	Odes, Books III and IV.

FRENCH.

Alfred de Vigny ...	Stello.
Berthon	Modern French Verse.

GERMAN.

O. Elster	Zwischen den Schlachten.
Heine	Lieder and Gedichte (Golden Treasury Series).

The couse also includes German Grammar.

HISTORY.

The following books are recommended :—

Tout	Advanced History of Great Britain
Ransome	Advanced History of England.
Brewer	The Student's Hume.
Oman	History of England.
Gardiner	Student's History of England.
Bury	History of Greece for Beginners. (*N.B.*—This book comes down only to 322 B.C.)
Smith	Smaller History of Greece, revised by Marindin.
Smith	Smaller History of Rome, revised by Greenidge.
Shuckburgh	History of Rome for Beginners.
Merivale and Puller ...	School History of Rome (only the portion from Actium to the end).

LOGIC.

The subject of Logic is to be studied as defined by the syllabus. Students are recommended to use one or more of the following books, or select portions thereof, with special reference to the course laid down in the syllabus :—

Carveth Read	Logic, Deductive and Inductive.
Bain	Logic (Deduction and Induction).
Welton	Logic, Vol. II.

Preparatory Reading—Students are advised to read—

Jevons	Elementary Lessons in Logic
	or
Minto	Logic

before joining the regular class.

The following books are recommended for the guidance of teachers :—

Hamilton	Lectures on Logic.
Mill	System of Logic.
Jevons	Principles of Science.
Bradley	Principles of Logic.
Bosanquet	Logic.
Sigwart	Logic.
Ueberweg	System of Logic and History of Logical Doctrines.
Venn	Empirical Logic.
Keynes	Formal Logic.

MATHEMATICS.

No text-books are prescribed. The subject is to be taught in accordance with the syllabus prescribed in the New Regulations.

GEOGRAPHY.

A. J. Herbertson	... The Oxford Geographies, Vol. III.
Ellis W. Heaton	... The World.
J. B. Reynolds	... Europe.
W. H. Arden Wood	... General Geography for Indian Students.
H. R. Mill ...	... The Realm of Nature.
Simons & Richardson	... Introduction to Practical Geography.
G. James Morrison	... Maps; their uses and construction.
W. A. Elderton	... Maps and Map-drawing.

PHYSICS.

Millikan and Gale	... A First Course in Physics. (Ginn & Co., New York and London.)
Glazebrook, Heat	... (Cambridge Physical Series.)
Glazebrook, Light	... (Cambridge Physical Series.)
Hadley ...	... Magnetism and Electricity for Beginners.
Watson ...	... Elementary Practical Physics.

CHEMISTRY.

W. A. Shenstone	... Inorganic Chemistry.
W. Jago ...	... Inorganic Chemistry—Theoretical and Practical, stage II—A Manual for Students in Advanced Classes.
Perkin and Lean	... Introduction to the Study of Chemistry.
Donington ...	... Practical Exercises in Chemistry.
H. E. Stapleton	... Introduction to Practical Chemistry.
P. C. Ray ...	... (Elementary) Inorganic Chemistry.

PHYSIOLOGY.

Hill ...	... Manual of Human Physiology.

BOTANY.

Farmer, J. B.	.. Practical Introduction to the Study of Botany (London, 1905).
Bailey, L. H.	.. Botany, an Elementary Text for Schools (New York, 1901).
Darwin, F. ...	... Elements of Botany (Cambridge, latest edition).

Candidates who take up Botany will be required to possess a special knowledge of the following Natural Orders of plants :—

(1) Cruciferae.
(2) Malvaceae.
(3) Rhamnaceae or Sapindaceae.
(4) Leguminosae.
(5) Cucurbitaceae.
(6) Rubiaceae.
(7) Compositae.
(8) Solaneceae.
(9) Labiatae.
(10) Amarantaceae.
(11) Commelynaceae.
(12) Gramineae.

At the Intermediate Examinations in Arts and Science a study of the outline of the life history of the following "Selected plants" is required to illustrate the gradual ascent in complexity of structure and reproductive cycle from the lowest fungi and algae to the phanerogams :—

(1) Mucor.
(2) Spirogyra.
(3) A Moss.
(4) A Fern.
(5) A Conifer.
(6) A Monocotyledon.
(7) A Dicotyledon.

ZOOLOGY.

J. Arthur Thomson	... Outlines of Zoology (such portions of it as are required in the Syllabus).
Huxley and Martin	... A Course of Elementary Instruction in Practical Biology (revised and extended by Professors G. B. Hawes and D. H. Scott, PH.D.).

SENATE HOUSE,
The 3rd December 1910.

G. THIBAUT,
Registrar, Calcutta University.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

INTERMEDIATE EXAMINATION IN SCIENCE, 1913.

ENGLISH.

Same as for the Intermediate Examination in Arts.

BENGALI.

(*Books recommended to be read as presenting models of style.*)

Ramgati Nyayratna	... ...	Ramcharita.
Bireswar Pandey	... ...	Manavatattva.
Haranchandra Rakshit	... ...	Banga—Sahitye—Bankim.
Jogendranath Basu	... ...	Life of Michael Madhusudan Dutt, (smaller edition recently published).
Narendranath Bhattacharyya	... ...	Buddha.
Girindrakumar Sen	... ...	Vividha Probandha.

HINDI.

(*Books recommended to be read as presenting models of style.*)
Same as for the Intermediate Examination in Arts.

ASSAMESE.

(*Books recommended to be read as presenting models of style.*)
Same as for the Intermediate Examination in Arts.

BURMESE.

(*Books recommended to be read as presenting models of style.*)
Same as for the Intermediate Examination in Arts.

URIYA.

(*Books recommended to be read as presenting models of style.*)
Same as for the Intermediate Examination in Arts.

URDU.

(*Books recommended to be read as presenting models of style.*)
Same as for the Intermediate Examination in Arts.

MATHEMATICS.

No text-books are prescribed. The subject is to be taught in accordance with the Syllabus prescribed in the New Regulations.

GEOGRAPHY.

Same as for the Intermediate Examination in Arts.

PHYSICS.

Same as for the Intermediate Examination in Arts.

CHEMISTRY.

Same as for the Intermediate Examination in Arts.

PHYSIOLOGY.

Same as for the Intermediate Examination in Arts.

BOTANY.

Same as for the Intermediate Examination in Arts.

ZOOLOGY.

Same as for the Intermediate Examination in Arts.

SENATE HOUSE,
The 3rd December, 1910.

G. THIBAUT,
Registrar, Calcutta University.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

[*In all cases where reference is made to Chapters, Sections, Pages or Lines, thus Chapters I—IX, the reference is to be understood as inclusive.*]

B.A. EXAMINATION, 1913.

ENGLISH.

PASS COURSE.

Shakespeare ...	... As You Like It. Henry V.
Hales ...	... Longer English Poems—Dryden; Pope; Johnson; Collins; Gray.
Tennyson ...	... Princess.
Charles Dickens	... Tale of Two Cities.
Cowper ...	... Letters (Golden Treasury Edition).
Carlyle ...	... Heroes and Heroworship.

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Shakespeare ...	... Tempest.
Keats ...	... Hyperion
Matthew Arnold	... Selected poems (Golden Treasury Series).
Matthew Arnold	... Essays in Criticism, Second Series

The following books are recommended for the study of the Philology of the English Language and the history of English Literature :—

Lounsbury ...	... History of the English Language.
Latham ...	... Handbook of the English Language.
Thomson ...	... Students' English Literature, founded upon the Manual of Thomas B. Shaw.
Saintsbury ...	... Short History of English Literature.

The following book is prescribed for candidates who take up the alternative paper in English :—

Brandes ...	... Shakespeare.

VERNACULAR COMPOSITION.

BENGALI.

(*Books recommended to be read as presenting ideals of character and models of style.*)

Bankim Chandra Chatterjee	Durgesnandini.
Rabindranath Tagore ...	Prachin Sahitya.
Chandicharan Banerjee ...	Life of Vidyasagar (new edition).

HINDI.

(*Books recommended to be read as presenting ideals of character and models of style.*)

Harischandra ...	Mudra Rakshas.
Pratapnarayan Misra ...	Suchal Siksha.
Gangaprasad Agnihotri ...	Nibandhmaladarsh.

ASSAMESE.

(*Books recommended to be read as presenting ideals of character and models of style.*)

Selections from Katha Bhagavat.

1. Sri Krishner Janma.
2. Kaliya-damana.
3. Varsha aru Sarat Varnana.

Selections from Jonaki.

1. Samsara pravaha.
2. Atma-Samyama.
3. Sakuntala, by Lambodar Bora (the whole).

BURMESE.

(*Books recommended to be read as presenting ideals of character and models of style.*)

Buridat Zat.
Narada Zat.
Zinatthapakathani.

URIYA.

(*Books recommended to be read as presenting ideals of character and models of style.*)

Radhanath Ray ... Mahajatra, Cantos I—IV.
Raghuvansa, translated by Bichhanda Patnaik.

URDU.

(*Books to be read as presenting models of style and ideals of character.*)

(To be notified hereafter).

SANSKRIT.

PASS COURSE.

Poetry.

Manusamhita... .. Chapter II with Kulluka's Commentary.
Kiratarjuniyam ... Cantos I and II with Mallinatha's Commentary.

Drama.

Abhijnanasakuntalam.
Uttara Ramacharitam.
History of Sanskrit Literature as in Macdonell (omitting Chapters II—IX).

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Poetry.

Bhattikavyam ... ... Cantos I—IV.
Kadambari ... ... Pages 102 to 124, Bombay Edition, commencing with "ततः चन्द्रपीड़" to "अच्छोदं नाम सरोदृष्टवान्"।

Rigveda Samhita ... Hymns from the Rigveda, with Sayana's Commentary, edited by Peterson, Part I, Suktas 1—12.
History of Sanskrit Literature as in Macdonell.

Grammar and Rhetoric.

Siddhanta Kaumudi—Karaka and Samasa.
Dandi—Kavyadarsa.
Sahitya Darpan, Chapter VI.

PALI.

PASS COURSE.

Poetry.

Dhammapada.
Khuddaka Patha.

Prose.

Milinda-Panha (Trenckner's edition), pages 1—216.
Dhammapada—Attha-Katha, Vol. I, edited by Mr. Norman in the P. T. S.

GRAMMAR.

Rupasiddhi (Rangoon or Colombo Edition).
Kielhorn's Sanskrit Grammar.

COMPARATIVE PHILOLOGY.

Peile's Primer of Philology.

HONOURS COURSE.

(In addition to the books prescribed for the Pass Course.)

Mahavamsa	...	... Chapters 1—5.
Dighanikaya	...	... Mahagovinda Sutta, Mahaparinibana Sutta.
Rhys Davids	...	... Buddhist India.

ARABIC.

Pass Course.

Selected portions (to be notified hereafter) of the following works:—

Poetry.

The Hámasa.
The Díván of Mutanabbi.
The Díván of Abú 'Atahiya.

Prose.

The Qor'án.
The Maqámát Hariri.
Tabari's History.
Qazwíní's Geography.

Grammar.

Arabic grammar according to modern method to be published by the University.

HONOURS COURSE.

(In addition to the books prescribed for the Pass course.)

Selected portions (to be notified hereafter) of the following works:—

Poetry.

The Seven Mu'allaqát.
Bánat Su'ád.
The Díván of Ibn Fáridh.

Prose.

The Qor'án with the commentaries of Baydháwí and of Zamakhshari.
Ibn Hishám's Life of the Prophet.
The Muqaddima of Ibn Khaldún.
The Mukhtasar-ul-Ma'áni.

The Honour course in Arabic also includes the elements of Arabic Prosody and Rhetoric; the outlines of Mahomedan history down to the fall of the Abbasid Caliphate; and a general knowledge of the History of Arabic literature.

PERSIAN.

Pass Course.

Selected portions (to be notified hereafter) of the following works:—

Poetry.

The Sháh Náma of Firdausi.
The Díván of Háfiz.
The Masnavi of Jaláluddin Rúmi.
The Kulliyát of Qa'áni.

Prose.

The Akbar Náma.
The Wakáya of Nimat Khan Ali.
The Siyásat Náma of Nizám-ul-Mulk.
The Arúz of Saifi.

Arabic Prose.

The Qur'án.
The Alif Layla.

The Pass Course includes the elements of Persian Prosody and Rhetoric and a knowledge of Arabic Grammar up to the Intermediate standard.

HONOURS COURSE.

(In addition to the books prescribed for the Pass Course.)

Poetry.

Gulshan-i-Raz.
The Qasá'id of Kháqáni.

Prose.

Chahár Maqála of Nizam-i-Aruzi.
The Tarikh-i-Wassáf.
The Inshá of Abul Fuzl.
Akhláq-i-Jalá'li.

Arabic Prose.

The Qor'án.
Ikhwán-us-Safa.

The Honours Course includes the outlines of Mahomedan history in so far as it relates to Persia, Central Asia and India and the History of Persian literature.

CLASSICAL ARMENIAN.

PASS COURSE.

Poetry.

Bagratoonie's translation of Paradise Lost, Books IX, X, XI and XII.

Prose.

Agathangalo's History, Parts I and III.
Moses of Khoren's History.
The course includes the History of Armenia.

HONOURS COURSE.

(In addition to the books prescribed for the Pass Course.)

Poetry.

Bagratoonie's Haik Dientsazn, Books I, II, III, IV and V.

Prose.

John Catholicas.
Elishe.

The course includes the History of Armenian Literature and the Elements of Armenian Philology.

HEBREW.

(*To be notified later.*)

GREEK.

PASS COURSE.

Homer ...	.. ...	Odyssey, Books I and II.
Aristophanes	... ...	Birds.
Plato ...	... ...	Phædo.
Demosthenes	... ...	Philippics, I, II, and III.

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Æschylus	... ...	Eumenides.
Sophocles	... ...	Ajax.
Thucydides	... ...	Book I, Chapters 1—80.

Permanent Subjects.

The following books may be consulted:—

Philology of the Greek Language—
Giles ... ... Comparative Philology.
History of Classical Greek Literature—
Murray ... ... Greek Literature.

LATIN.

PASS COURSE.

Cicero	Second Philippic.
Livy	Book I.
Virgil	Georgics, Book II.
Lucan	Pharsalia, Book I.

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Lucretius	Book V.
Terence	Andria.
Cicero	Letters (Tyrrell's Selections).
Tacitus	Histories, Book I.

Permanent Subjects.

The following books may be consulted—

Philology of the Latin Language—

Lindsay ... ... Historical Latin Grammar.

History of Latin Literature to the end of the Augustan Period—

Mackail ... ... Latin Literature.

FRENCH.

PASS COURSE.

De Vigny	Cinq Mars.
Sainte Beuve	Pages Choisies.
Racine	Athalie.
Rostand	L'Aiglon.

The course also includes French Grammar and the outlines of French History.

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Corneille	Cid.
Moliere	L'Avare.
Victor Hugo	Hernani.

The course also includes French Grammar and the outlines of French History and also the elements of French Philology and the History of a selected period of French Literature.

GRAMMAR RECOMMENDED.

V. de Vavs ... ... Grammaire des Grammaires.

Text-book in French Philology recommended :—

Darmesteter	Historical French Grammar.
Brachet	Grammaire Historique de la langue Francaise.

The period of French Literature selected for 1913 is the 17th century.

GERMAN.

PASS COURSE.

Lessing	Minna von Barnhelm.
Schiller	Wallensteins Lager.

The course includes, in addition to the prescribed texts, Grammar and the outlines of German History.

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Gœthe	Faust, Part I.
Gœthe	Wilhelm Meisters Lehr Jahre, Part I.

The course includes, in addition to the prescribed texts, Grammar and the outlines of German History and also the elements of German Philology and the History of a selected period of German Literature.

GRAMMAR RECOMMENDED.

J. Wright ... ... Historical German Grammar (1907).

The period selected for 1913 is from 1750—1832.

HISTORY.

PASS COURSE.

Paper I.

Lodge—Modern Europe.

Paper II.

Period—The reign of Queen Victoria.

Low and Sanders ... The History of England during the reign of Victoria, 1837—91.

Paper III.

Elphinstone ... ... History of India.
Smith ... ... Early History of India.
Taylor ... ... Students' Manual of the History of India (only the British Period),
or
A. D. Innes ... ... History of British India.

HONOURS COURSE.

(*In addition to the books prescribed for the Pass Course.*)

Paper IV.

Period from 479—404 B.C.

Bury ... ... History of Greece.
Holm ... ... History of Greece.
Grote ... ... History of Greece.

Paper V.

Period from 264—146 B.C.

How and Leigh ... History of Rome to the death of Cæsar.
Shuckburgh ... ... History of Rome.
Mommsen ... ... History of Rome, translated by Dickson.

Paper VI.

Hallam ... ... Europe during the Middle Ages.

POLITICAL ECONOMY AND POLITICAL PHILOSOPHY.

Books recommended for the guidance of students:—

POLITICAL ECONOMY.

PASS COURSE.

Paper I.

Marshall ... ... Economics of Industry.
R. T. Ely ... ... Outlines of Economics [Revised and Enlarged by Ely, Adams, Lorenz and Young (Macmillan)].
Gide ... ... Principles of Political Economy.

HONOURS COURSE.

Paper IV.

(In addition to the books recommended for the Pass Course.)

Flux ... ... Economic Principles.
Hadley ... ... Economics.

POLITICAL PHILOSOPHY.

PASS COURSE.

Paper II.

Leacock ... ... Elements of Political Science.
Bluntschli ... Theory of the State.
Woodrow Wilson ... The State.
Courtney ... Working Constitution of England.

PASS COURSE.

Paper III.

(Application of the Principles of Political Economy to Indian Topics.)

Imperial Gazetteer ... Vol. III (Economic).
Strachey ... ... India.
Indian Currency Committee (1898)
Report of the Committee—C9390 of 1899.
East India (Currency) correspondence respecting the proposals on Currency made by the Government of India—C8840 of 1898.
Land Revenue Policy of the Indian Government (Government of India)—January 1902.

HONOURS COURSE.

Paper V.

(In addition to the books recommended for the Pass Course.)

Specially selected texts—

Aristotle ... ... Politics (translated by Welldon or Jowett).
Locke ... ... Two Treatises of Civil Government.

Books recommended for the guidance of teachers—

Mill ... ... Political Economy.
Nicholson ... ... Principles of Political Economy.
Sidgwick ... ... Development of European Polity.
Sidgwick ... ... Elements of Politics.
Marshall ... ... Principles of Economics.
Pollock ... ... Introduction to the History of the Science of Politics.
Ranade ... ... Essays on Indian Economics.
T. Morrison ... Industrial Organisation of an Indian Province.
Baden-Powell ... Land Systems of British India.
R. C. Dutt ... India in the Victorian Age.
R. C. Dutt ... The Economic History of India under Early British Rule.
Bryce ... ... American Commonwealth (for the Constitution of the United States).
Chesney ... Indian Polity.
A. Lawrence Lowell ... Governments and Parties in Continental Europe (two vols.) Longmans, Green & Co.
Pierson ... ... Principles of Economics.
Carver ... ... Distribution of Wealth.
Palgrave ... ... Dictionary of Political Economy.
Barker ... ... Political Thoughts of Plato and Aristotle.
Review of the Trade of India (annual) by the Director-General of Commercial Intelligence.

MENTAL AND MORAL PHILOSOPHY.

The following books are recommended to be used in studying the subject of Mental and Moral Philosophy as defined by the Syllabus :—

PSYCHOLOGY.

(*Pass and Honours.*)

Höffding ... ... Outlines of Psychology.
Wundt ... ... Human and Animal Psychology.
Stout ... ... Manual of Psychology.
James ... ... Text-book of Psychology.

Preparatory Reading—Students are advised to read—

Titchener ... ... Primer of Psychology

before joining the regular class.

ETHICS.

(*Pass and Honours.*)

Seth ... ... Study of Ethical Principles.
Martineau ... Types of Ethical Theory.
Mackenzie ... Manual of Ethics.
Mill ... ... Utilitarianism.

Preparatory Reading—Students are advised to read—

Muirhead ... ... Elements of Ethics,
Mohit Chandra Sen ... Elements of Moral Philosophy,

before joining the regular class.

GENERAL PHILOSOPHY.

(*Pass and Honours.*)

Külpe ...	...	Introduction to Philosophy.
Marvin ...	...	Introduction to Philosophy.
Paulsen ...	...	Introduction to Philosophy.

NATURAL THEOLOGY.

(*Honours.*)

Martineau	...	Study of Religion.
Flint ...	...	Theism, and Antitheistic Theories.

Preparatory Reading—Students are advised to read—

Knight ...	...	Aspects of Theism,
	or	
Armstrong	...	God and the Soul,

before joining the regular class.

HISTORY OF PHILOSOPHY.

(*Honours.*)

The following books are recommended :—

Weber ...	...	History of Philosophy.
Falckenberg	...	History of Modern Philosophy.
Knight ...	...	Hume (Blackwood's Philosophical Classics)
Fraser ...	...	Berkeley (ditto ditto)

Preparatory Reading—

Schwegler ...	...	History of Philosophy.

SPECIAL TEXT.

(*Honours.*)

Descartes ...	...	Discourse on Method and Meditations (Veitch).

The following books are recommended for the guidance of teachers :—

PSYCHOLOGY.

James ...	...	Principles of Psychology.
Ward ...	...	Psychology (Art. in the Encyclopædia Britannica).
Ladd ...	...	Elements of Physiological Psychology.
Herbert Spencer	...	Principles of Psychology.
Bain ...	...	Senses and the Intellect.
Bain ...	...	Emotions and the Will.
Sully ...	...	Human Mind.
Wundt ...	...	Outlines of Psychology.

ETHICS.

Green ...	...	Prolegomena to Ethics.
Sidgwick ...	...	Methods of Ethics.
Wundt ...	...	Ethics.
Leslie Stephen	...	Science of Ethics.
Janet ...	...	Theory of Morals.
Paulsen ...	...	System of Ethics.
Abbott ...	...	Kant's Theory of Ethics.
Sidgwick ...	...	History of Ethics.
Alexander ...	...	Moral Order and Progress.

GENERAL PHILOSOPHY AND NATURAL THEOLOGY.

Green ...	...	Prolegomena to Ethics.
Bradley ...	...	Appearance and Reality.
E. Caird ...	...	Critical Philosophy of Kant.
Sidgwick ...	...	Philosophy of Kant and other Lectures.
Sidgwick ...	...	Philosophy, its Scope and Relations.
Herbert Spencer	...	First Principles.
Hegel ...	...	Philosophy of Mind (Wallace).
Hegel ...	...	Philosophy of Right (Dyde).
Lotze ...	...	Metaphysics.
Pfleiderer ...	...	Philosophy of Religion.
Caird ...	...	Introduction to the Philosophy of Religion.
W. G. Ward	...	Philosophy of Theism.
Janet ...	...	Final Causes.
Hegel ...	...	Philosophy of Religion (Spiers and Sanderson).
Lotze ...	...	Outlines of the Philosophy of Religion.
E. Caird	...	Evolution of Religion.
James ...	...	Varieties of Religious Experience.

HISTORY OF PHILOSOPHY.

Ueberweg	...	History of Philosophy.
Erdmann	...	History of Philosophy.
Leslie Stephen	...	English Thought in the Eighteenth Century.

MATHEMATICS.

Same as for the B.Sc. Examination.

PHYSICS.

Same as for the B.Sc. Examination.

CHEMISTRY.

Same as for the B.Sc. Examination.

PHYSIOLOGY.

Same as for the B.Sc. Examination.

BOTANY.

Same as for the B.Sc. Examination.

ZOOLOGY.

Same as for the B.Sc. Examination.

G. THIBAUT,
Registrar, Calcutta University.

SENATE HOUSE,
The 3rd December, 1910.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

B. Sc. EXAMINATION, 1913.

MATHEMATICS.

Pass Course.

The following books are recommended :—

1. Higher Plane Trigonometry—
   Todhunter ... ... Plane Trigonometry, edited by Hogg.

2. Plane Analytical Geometry—
   Loney ... ... Elements of Co-ordinate Geometry.
   C. Smith ... ... Elementary Treatise on Conic Sections.

3. Differential Calculus—
   Edwards ... ... Differential Calculus for Beginners
   or
   Ganesh Prasad ... Differential Calculus.

4. Integral Calculus and Differential Equations—
   Edwards ... ... Integral Calculus for Beginners.
   Taylor ... ... The Differential and Integral Calculus and Differential Equations.

5. Hydrostatics—
   Besant ... ... Elementary Hydrostatics.
   Loney ... ... Elements of Hydrostatics.

6. Astronomy—
   Parker ... ... Elements of Astronomy.

Honours Course.

1. Higher Algebra—
   Hall and Knight ... Higher Algebra.
   C. Smith ... ... A Treatise on Algebra.

2. Elementary Theory of Equations—
   Cajori ... ... Introduction to Theory of Equations, Chapter I—VII.

3. Higher Plane Trigonometry—
   Todhunter ... ... Plane Trigonometry, edited by Hogg.

4. Plain Analytical Geometry—
   Loney ... ... Elements of Co-ordinate Geometry.
   C. Smith .. ... Elementary Treatise on Conic Sections.

5. Elementary Solid Geometry—
   C. Smith ... ... Elementry Treatise on Solid Geometry.

6. Elementary Principles of Vectors—
   Kelland and Tait ... Introduction to Quaternions, 3rd Edition, edited by Knott.
   Henrici and Turner ... Vectors and Rotors.

7. Differential Calculus—
   Williamson ... Differental Calculus.

8. Integral Calculus and Differential Equations—
   Williamson ... Integral Calculus.
   Murray ... ... Introductory Course in Differential Equations.

9. Statics—

Minchin	...	... Statics, Volume I.
Jeans	...	... Theoretical Mechanics.

10. Dynamics of a Particle—

Besant	...	... Treatise on Dynamics, Chapters I—VIII.
Jeans	...	... Theoretical Mechanics.
Cox	...	... Mechanics.

11. Hydrostatics—

Besant	...	.. Elementary Hydrostatics.
Loney	...	... Elements of Hydrostatics.

12. Astronomy—

Parker	...	... Elements of Astronomy.
Young	...	... Manual of Astronomy.

N.B.—Candidates who take up Mathematics at the B.A. or B.Sc. Examination are recommended to refer to Saxelby's Practical Mathematics. Candidates who take up Honours in Mathematics at the B.A. or B.Sc. Examination are recommended to refer to Cox's Mechanics.

PHYSICS.

Pass Course.

Watson	...	... A Text-book of Physics.
Hadley	...	... Magnetism and Electricity for Students.

Pass Practical.

Watson	...	... A Text-book of Practical Physics.

HONOURS COURSE.

(In addition to the books prescribed for the Pass Course).

Poynting and Thomson	...	Sound.
Edser	...	... Heat for Advanced Students.
Edser	...	... Light for Students.
Foster and Porter	...	Elementary Treatise on Electricity and Magnetism.

Book recommended for consultation—

Planck	...	... Treatise on Thermodynamics.

CHEMISTRY.

Pass Course.

Van Deventer	...	... Physical Chemistry for Beginners.
Newth	...	... Inorganic Chemistry.
Holleman	...	... Inorganic Chemistry.
Holleman	...	... Organic Chemistry.
Ira Remsen	...	... Organic Chemistry.
J. Wade	...	.. Introduction to the Study of Organic Chemistry.
Gooch and Walker	..	... Outlines of Inorganic Chemistry.
Francis Jones	...	.. Practical Chemistry.
Alexander Smith	...	... General Inorganic Chemistry.
F. Mollwo Perkin	...	... Qualitative Chemical Analysis—Organic and Inorganic.
Clowes and Coleman		... Quantitative Analysis.
J. B. Cohen	...	... Theoretical Organic Chemistry.

HONOURS COURSE.

(In addition to the books prescribed for the Pass Course.)

H. C. Jones	...	... Elements of Physical Chemistry.
Ostwald	...	... Foundations of Analytical Chemistry.
Valentine and Hodgkinson		... Practical Chemistry.
Cohen	...	... Practical Organic Chemistry.
Caven and Landor	...	... Systematic Inorganic Chemistry.
Ostwald	...	... Outlines of General Chemistry.
J. Walker	...	... Introduction to Physical Chemistry.

N. B.—Candidates who take up Chemistry at the B.A. or B. Sc. Examination are recommended to refer to Saxelby's Practical Mathematics.

BOTANY.

Pass Course.

Vines, S. H. ...	... An Elementary Text-book of Botany (London, 1905).
Scott, D. H. ...	.. Structural Botany, 2 Vols. (London, 1904-06).
Darwin, F., and Acton, G. H. ...	Practical Physiology of Plants (Cambridge, latest edition).
Prain, D. ...	... Bengal Plants (Calcutta, 1903), *or*
Roxburgh ...	... Flora Indica, edited by C. B. Clarke (Calcutta, 1874).

Honours Course.

[In addition to the text-books for the Pass Course.]

Strasburger, E. ...	... Text-book of Botany, translated by Porter revised by Lang (Third Edition, London).
Reynolds Green, J.	... Vegetable Physiology (London, 1900).
Schimper, A. F. W.	... Geography of Plants (Oxford, 1903).

ZOOLOGY.

Pass Course.

Boas	Text-book of Zoology.
Shiply and MacBride	Zoology.
Oscar Hertwig ... and H. J. Campbell ...	The Cell.
Huxley and Martin...	A Course of Elementary Instruction in Practical Biology (Revised Edition).
P. J. Parker and W. N. Parker.	An Elementary Course of Practical Zoology.
Foster and Balfour...	The Elements of Embryology (edited by Sedgwick and W. Heape).
Wallace ...	Darwinism.

Honours Course.

[In addition to the books prescribed for the Pass Course.]

Miall and Hammond	The Structure and Life-history of the Harlequin Fly.
Miall and Denny ...	The Cockroach.

PHYSIOLOGY.

Pass Course.

Starling ...	Elements of Human Physiology (latest edition).

Practical.

Schafer ...	Essentials of Histiology *and either*
Halliburton ...	Essentials of Chemical Physiology.
Brodie ...	Essentials of Experimental Physiology *or*
Beddard, Edkins, Hill, Pembrey and Macleod	Practical Physiology.

Honours Course.

Halliburton ...	Handbook of Physiology.
Stewart ...	Manual of Physiology.
Howell ...	Text-book of Physiology.

Practical.

The same as for the Pass Course.

Syllabus in Experimental Physiology.

Pass Course.

The induction coil ; single shocks ; short circuiting key ; effect of single shocks on the tongue; break-shock is stronger than the make-shock. Helmholtz's Modification ; Neef's Hammer.

Pithing a frog ; nerve-muscle preparation. Mechanical, chemical, thermal and electrical stimulation of muscle and nerve.

The Graphic method : Simple lever ; crank lever (myograph) ; moist chamber. Minimal and maximal excitation with single induction shocks (make and break). Stimulation by constant current : contraction of muscle only at make and break.

The muscle curve :—Single contraction of a frog's muscle : the latent period, the period of contraction and the period of relaxation. Time-tracing by tuning-fork. Method of after-loading. The influence of temperature and of load on muscular contraction. The work performed by a muscle during a twitch.

Elasticity and extensibility of muscle.

Summation of muscular contraction : tetanus.

Fatigue of muscle.

Thickening of a muscle on contraction.

Bernard's curare experiment.

Stimulation of a motor nerve; unequal excitability (greater nearer the centre of a motor nerve) ; excitability of flexor and extensor nerves.

Velocity of nerve-impulse (myographic method).

Electro-Physiology :—Galvani's experiment of contraction with metals ; Galvani's experiment of contraction without metals.

The Frog's heart :—Beating of the heart ; effect of heat and cold (heart *in situ*) ; section of the heart ; effect of heat and cold on excised heart.

Stannius' experiment.

Graphic record of the beat of the heart (suspension method and also direct registration with heart-lever).

Pulse—Sphygmographic tracing.

Blood-pressure in man : Sphygmometer (Hill and Bernard's).

Reflex action (simple experiments on a pithed frog).

Vision :—Accommodation ; Scheiner's experiment ; near and far point ;

Purkinge-Sanson's images : Phakoscope ; Blind spot ; yellow spot ; Colour vision : Complementary colours.

HONOURS COURSE.

Additional Experiments—

The Induction Coil—Break extra-current of Faraday.

The Rheonome : Effect of sudden variation of current.

Isotonic and Isometric contraction.

Influence of veratrine on muscular contraction.

Indefatigability of nerve.

Excitation of muscle by constant current : Polar excitation of a muscle.

Electrotonus. Electrotonic changes in excitability and conductivity of a nerve.

Kuhne's experiment of contraction without metals.

Examination of currents in muscle, nerve and heart by means of the reflecting galvanometer.

Frog's heart—Minimal stimulus causes maximal contraction. "Staircase effect." Single contraction of the ventricle. Tetanisation. Refractory period. Stimulation of the vagus. Action of drugs (Muscarin and Atropin) on the heart.

Voice and Speech : Laryngoscope.

Vision : Ophthalmoscope ; Perimeter.

GEOLOGY.

No text-books are prescribed or recommended. The subject is to be studied with the help of the Syllabus prescribed in the Regulations.

EXPERIMENTAL PSYCHOLOGY.

The subject is to be studied as defined by the Syllabus. Sudents are recommended to use one or more of the following books or select portions thereof, with special reference to the course laid down in the Syllabus :—

Pass Course.

I.—General Psychology.

Hoffding	...	Outlines of Psychology.
Wundt ...	...	Human and Animal Psychology.
Stout ...	...	Manual of Psychology.
Preparatory Reading	–	Students are advised to read Stout's Groundwork of Psychology before joining the regular class.

II.—Experimental Psychology.

Titchener	...	Outlines of Psychology.
Külpe	...	Outlines of Psychology.
Scripture	..	New Psychology.

Laboratory Course—Titchener's Experimental Psychology, Volume I, Part I, and Volume II, Part I.

Honours Course.

I.—General Psychology—Same as in the Pass Course.

II.—Physiological and Comparative Psychology.

Wundt	...	Outlines of Physiological Psychology (Volume I).
Ladd	...	Elements of Physiological Psychology.
Romanes	...	Mental Evolution in Man.
Romanes	...	Mental Evolution in Animals.
Lloyd Morgan	...	Comparative Psychology.
Herbert Spencer	...	Principles of Psychology (Volume I).

III.—Experimental Psychology—

In addition to the books recommended for the Pass Course, the following :—

Wundt	...	Outlines of Psychology.
Ladd	...	Elements of Physiological Psychology (select portions).

The following books are recommended for the guidance of teachers :—

General Psychology—

James	..	Principles of Psychology.
Ward	...	Psychology (Art. in the Encyclopædia Britannica).
Ladd	...	Elements of Physiological Psychology.
Herbert Spencer	...	Principles of Psychology.
Bain	..	Senses and the Intellect.
Bain	...	Emotions and the Will.
Sully	...	Human Mind.
Wundt	.	Outlines of Psychology.

Physiological and Comparative Psychology—

Ziehen	...	Introduction to Physiological Psychology.
Foster ...	...	Text-book of Physiology.
Helmholtz	...	Sensations of Tone

Experimental Psychology—

Titchener	...	Experimental Psychology.
Volume I, Part II	...	Instructor's Manual.
Volume II, Part II	...	Instructor's Manual.

SENATE HOUSE,
The 3rd December, 1910.

G. THIBAUT,
Registrar, Calcutta University.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

M.A. EXAMINATION, 1913.

ENGLISH.

COMMON PAPERS FOR GROUPS A AND B.

Paper I.—General History of English Literature.

No text-books.

Paper II.—Drama.

Shakespeare ...	King Lear. Cymbeline. Henry IV, Part I.
Ben Jonson ...	... Every Man in His Humour.

Paper III.—Poetry.

Spenser ...	... Faery Queene, Books V and VI.
Andrew Marvell	... Selections published by Methuen (The Little Library), omitting Satires.
Milton ...	... Lycidas.
Shelley ...	... Adonais.
Tennyson ...	... In Memoriam.
Matthew Arnold	... Thyrsis.

Paper IV.—Prose.

Bacon ...	... Essays.
Spectator ...	... Essays, 1—50.
Emerson ...	... Representative Men.
R. L. Stevenson	... Virginibus Puerisque.

GROUP A.

Paper V.—(a) Text-book.

Chaucer and Outlines of Historcial English Grammar.

Chaucer ...	... The Prologue; The Prioresses Tale; Sire Thopas; The Monkes Tale; The Clerkes Tale; and the Squieres Tale, (Clarendon Press School Books.)

(b) Books recommended for study.

Morris ...	... Historical English Accidence.
Kellner ...	... Historical English Syntax.

Paper VI.—Selected Period of Poetry.

1795—1830 and special study of the Poetical Works of Wordsworth and Coleridge.

Paper VII.—Selected Period of Prose.

Chief Prose writings from 1795—1830.

Paper VIII.—Essay or Essays on subjects connected with the source.

No text-books.

GROUP B.

Paper V.—English Language and Literature prior to 1100 A.D.

Sweet ...	... Anglo-Saxon Reader, Part I.

Paper VI.—English Language and Literature from 1100 A.D. to 1500 A.D. including Chaucer.

Morris and Skeat	... Specimens of Early English, Parts I and II.
Skeat ...	... Specimens of English Literature.

Paper VII.—Historical English Grammar, including the Elements of Teutonic Philology.

BOOKS RECOMMENDED FOR STUDY.

Morris	Historical English Accidence.
Kellner	Historical English Syntax.
Skeat	Principles of English Etymology, 1st and 2nd Series.
Helfenstiein	Comparative Grammar of the Teutonic Languages.

Paper VIII.—Essay or Essays on subjects connected with the Course.

No text-books.

GREEK.

Homer	Iliad and Odyssey.
Théocritus	The whole.
Aeschylus	Prometheus, Agamemnon.
Sophocles	Oedipus Tyrannus, Antigone.
Euripides	Bacchae, Hippolytus.
Aristophanes	Clouds, Frogs.
Herodotus	Book I.
Thucydides	Books VI and VII.
Demosthenes	Oration against Leptines.
Demosthenes	Private Oration "In Reply to Kallikles."
Plato	Republic.
Aristotle	Nicomachean Ethics, Books I—IV.

Permanent Subjects.

The following books are recommended :—

(*a*) Philology of the Greek Tongue and the Elements of Comparative Philology—

Giles	Comparative Philology.
Victor Henry	Comparative Grammar of Greek and Latin.

(*b*) General History and Antiquities of Greece—

Bury	History of Greece (larger edition).
Tucker	Life in Ancient Athens (Macmillan & Co.).

(*c*) History of Greek Literature—

Murray	Greek Literature.

LATIN.

Plautus	Rudens, Captivi.
Terence	Adelphi, Phormio.
Lucretius	Books I and V.
Virgil.	
Horace.	
Juvenal	Satires, omitting 2, 6, 9.
Cicero	Letters (Watson). De Divinatione. In Quintum Caecilium.
Livy	Books V and VI.
Tacitus	Histories.

Permanent Subjects.

(*a*) Philology of the Latin Tongue and Elements of Comparative Philology—

Giles	Comparative Philology.
Lindsay	Historical Latin Grammar.

(*b*) General History and Antiquities of Rome—

Mommsen	Roman History.
Greenidge	Roman Public Life.

(*c*) History of Classical Latin Literature—

Mackail	Latin Literature.

SANSKRIT.

The course shall include the following :—

(*The books prescribed for the first four papers are common to all the groups.*)

Paper I.—(*a*) Ashtaka I of the Rigveda, with Sayana's commentary thereon.
(*b*) Sayana's Introduction to his commentary on the Rigveda.
Paper II.—Siddhanta-Kaumudi (whole).

Paper III.—(*a*) Comparative Philology distinguished from Historical Grammar and the Science of Language; comparison of Languages on the basis of their historical kinship; criteria of kinship and of degrees of kinship among languages; reconstruction of missing parent-tongues on the basis of their historical descendants; classification of languages on the genetic principle as opposed to the principle of morphological development; establishment of the Indo-Germanic speech-family; sound-shifting (vocalic and consonantal) in Sanskrit, Zend, Greek, Latin and Gothic illustrated by a few apt examples; Grimm's law explained by a few apt examples; Verner's law explained by a few apt examples; ablaut and umlaut explained by a few apt examples; the theory of velar gutturals explained by a few apt examples; the theory of sonant nasals explained by a few apt examples; accentuation in Vedic Sanskrit and in Greek contrasted with accentuation in Early Latin and in Gothic; important roots and radicals common to Sanskrit, Zend, Greek, Latin and Gothic; important organic flexions common to Sanskrit, Zend, Greek, Latin and Gothic; important prefixes and suffixes common to Sanskrit, Zend, Greek, Latin and Gothic; important idioms and constructions common to Sanskrit, Zend, Greek, Latin and Gothic; criteria of an Indo-Germanic tongue; the Indo-Germanic speech-family distinguished from the Semetic speech-family; Sanskrit compared and contrasted with Finnish, Turkish, Sumerian, Hebrew, Chinese, Aztek, Ba-ntu and Basque; methods of scientific Etymology. Phonetics distinguished from Acoustics; anatomy and physiology of the larynx and the pharynx; breath, whisper, voice and speech; formation and localisation of different vowels and consonants; value of the laryngoscope; value of the linguaphone; pronounciation of the letters of the Sanskrit, Zend, Greek, Latin and Gothic alphabets; phonetic transcription of nomic alphabets; Bell's system of visible speech; Sweet's narrow Romic alphabet; Prince Bonaparte's alphabet; bearing of the Pratisakhyas on Phonetics.

General principles and methods of Comparative Philology.

Elements of Phonetics.

(*b*) History (including description of geographical areas and chronological periods) of (1) the Indo-Iranic speech-group, (2) Armenian, (3) the Hellenic speech-group, (4) Albanian, (5) the Salvo-Lettic speech-group, (6) the Italic speech-group, (7) the Celtic speech-group, and (8) the Germanic speech-group. A short account of the phonology and grammar of (1) Vedic Sanskrit, the Ancient Apabhramsa, and the Paisachi Bhasa, (2) Classical Sanskrit, Magadhi (Pali), and Sauraseni-Maharashtri (Prakrit), (3) the popular Prakritic dialects, and (4) the seven Gaudian languages and their collaterals.

History of the Indo-Germanic family of languages.

Special knowledge of Sanskrit (Vedic and Classical) and Prakrit.

(*c*) Sabdasaktiprakasika. Principles of Etymology; meaning and function of the various grammatical categories; principles of General Grammar leading up to the Philosophy of Language.

Sabdasaktiprakasika and its bearing on the Science of Language.

Paper IV.—Two Essays, (*a*) dealing with some subject connected with the history of Sanskrit literature generally; (*b*) dealing with some subject connected with the history of the special department covered by the group taken up.

Papers V, VI, VII and VIII.—One of the following groups to be selected by the candidate:—

A. (*Literature.*)

Paper V.—(*a*) Poetry texts:—

Naishadha Charita	...	Cantos 15, 16 and 17, with Mallinatha's commentary.
Kamandakiya Nitisara	...	(Jibananda's edition) Chapters 8, 9, 10 and 11 (pages 37—62.)
Sukra Nitisara	...	(Jibananda's edition) Chapter 4 (pages 507—670).
Mahabharata	...	Rajdharma, Santiparva, Chapters 56—60, 68, 69 and 86—88, Pratap Ray's edition.
Magh ...	...	Cantos 14 and 15, with Mallinatha's commentary.

(*b*) Translation from English into Sanskrit.

Paper VI.—(*a*) Drama texts:—

Vikramorvasi, Malati Madhava, Mrichhakatika, Venisanhara, Balaramayana.

Vararuchi's Prakrit Prakasa as is necessary for the appreciation of the Prakrit passages.

(*b*) Translation from English into Sanskrit.

Paper VII.—(*a*) Prose texts:—

Kadamvari ...	...	Part I.
Harshacharita	...	Chapters 5, 6 and 7.

(*b*) Unseen passages in Sanskrit Prose for translation into English.

Paper VIII.—(*a*) Rhetoric and Prosody, namely, Kavyaprakasa, Ekavali, Sarasvati-Kanthabharana, Sahitya-darpana and Pingala's Chhanda Sutras with Halayudha's Vritti.

(*b*) Unseen passages in Sanskrit Poetry for translation into English.

B. (*Vedas.*)

Paper V.—(*a*) Yaska's Nirukta and Pingala's Chhandasutras, with Halayudha's Vritti Pratisakhya of the Rig-Veda, with the commentary of Uvata.

Paper VI.—(*a*) Aitareya Brahmana with Sayana's commentary.

(*b*) Simple unseen passages in Vedic Sanskrit for translation into Classical Sanskrit.

[The interpretations of any recognised Indian School will be accepted.]

Paper VII.—(*a*) Vrihadaranyaka ... Chapters III and IV.
Chhandogya ... ... ,, V, VI, VII and VIII.

(*b*) Simple unseen Sanskrit passages from any Upanishad for translation into English.

Paper VIII.—(*a*) Grihya Sutra—Gobhila with commentary.

(*b*) Translation from English into Sanskrit.

C. (*Mimansa and Smriti.*)

Paper V.—(*a*) Mimansa Sutras with Sabara Bhashya, first six chapters.

(*b*) Simple unseen Sanskrit passages from any treatise or commentary on the Mimansa Philosophy, such as the Sloka-Vartika and the Tantra-Vartika, for translation into English.

Paper VI.—(*a*) Jaiminiya Nyaya Mala Vistara and Mimansa Nyaya-prakasa.

(*b*) Simple unseen Sanskrit passages from any treatise or commentary on the Mimansa Philosophy, such as the Mimansa-Balaprakasa, and the Tupteeka, for translation into English.

Paper VII.—(*a*) Manu Samhita with Kulluka's commentary.
Dharma Sutras of Apastamba and Gautama with Haradatta's commentary.

(*b*) Grihya-Sutra—Gobhila.

Paper VIII.—(*a*) Yajnavalkya Sanhita with Vijnanesvara's Mitakshara.
Parsara's Institutes with Madhava's commentary.

(*b*) Translation from English into Sanskrit.

D. (*Vedanta.*)

Paper V.—(*a*) Vedantasara (Jacob's Edition), Panchadasi, Vedanta Paribhasha Hastamalaka (with commentary), and Siddhantalesa.

(*b*) Simple unseen Sanskrit passages from any work on Vedanta Philosophy such as the Vivaranaprameya-Sangraha for translation into English.

Paper VI.—(*a*) Vedantasutras with Sankara Bhashya.

(*b*) Translation from English into Sanskrit.

Paper VII.—(*a*) Sribhashya—Chapter I, Part I.

(*b*) Advaita-Brahma-Siddhi.

Paper VIII.—(*a*) Bhagavadgita and Chhandogya as in Group B.
Munda, Mandukya.
Svetasvataropanishad with Sankara's commentary.

(*b*) Passages for translation into English from the Anubhashya and the Saivabhashya.

E. (*Sankhya and Yoga.*)

Paper V.—(*a*) Sankhyasutras of Kapila, with Vritti of Aniruddha
Sankhya-Karika of Iswarakrishna, with Bhashya of Gaurapada.

(*b*) Simple unseen Sanskrit passages from any treatise or commentary on the Sankhya Philosophy, for translation into English.

Paper VI.—(*a*) Sankhya Pravachana Bhashya.
Sankhya-Sara and Sankhya-Tattva Kaumudi.

(*b*) Translation from English into Sanskrit.

Paper VII.—(*a*) Yoga Sutras of Patanjali, with Bhashya of Vyasa and Vritti of Bhoja Yoga-Vartika of Vijnana-Bhikshu.

(*b*) Simple unseen Sanskrit passages from any treatise or commentary on the Yoga Philosophy, for translation into English.

Paper VIII.—(*a*) Yoga Vasishtha—Chapter on Nirvana, Part II.
Sarbadarsana-Sangraha.

(*b*) Translation from English into Sanskrit.

F. (*Nyaya and Vaiseshika.*)

Paper V.—(*a*) Nyayasutras of Gautama, with the Bhashya of Vatsyayana, Vartika of Udyotkara, and Vritti of Visvanatha.

(*b*) Simple unseen Sanskrit passages from any treatise or commentary on the Nyaya Philosophy, for translation into English.

Paper VI.—(*a*) Nyayamanjari of Jayanta Bhatta.
Khandana Khanda Khadya of Sriharsha—Chapter I.

(*b*) Translation from English into Sanskrit.

Paper VII.—(*a*) Bhasha Parichheda, Siddhanta-muktavali, Kusumanjali of Udyanacharyya with commentary of Ruchhidatta and gloss of Vardhamana.

(*b*) Translation from English into Sanskrit.

Paper VIII.—(*a*) Vaiseshika Sutras of Kanada, with Bhashya of Prasastapada, Nyayakandali of Sridhara and Vritti of Jaynarain.

Saptapadarthi of Sivaditya, with commentary of Yatindramadhava.

(*b*) Simple unseen Sanskrit passages from any treatise or commentary on the Vaiseshika Philosophy, for translation into English.

G. (*General Philosophy.*)

Paper V.—(*a*) Sankhyasutras of Kapila with Vritti of Aniruddha.

Sankhya Tattva Kaumudi.

Yogasutras of Patanjali with the Bhashya of Vyasa and Vritti of Bhoja.

(*b*) Simple unseen Sanskrit passages from any work on Philosophy for translation into English.

Paper VI.—(*a*) Nyayasutras of Gautama with Bhashya of Vatsyayana and Vritti of Visvanatha. Vaiseshikasutras of Kanada, with Bhashya of Prasastapada, and Nyayakandali of Sridhara.

(*b*) Translation from English into Sanskrit.

Paper VII.—(*a*) Vedantasara (Jacob's Edition), Bhagavadgita, Vedantasutras, with Sankara's commentary, Chapter I, Parts I and IV; Chapter II, Part II.

(*b*) Translation from English into Sanskrit.

Paper VIII.—(*a*) Nyayaratnamala of Parthasarathi Mi ra: Mimansa Nyaya Prakasa of Apadeva. Upanishads—Isa, Kena, Katha, Prasna, Munda, Mandukya and Svetasvatara with Sankara's commentary.

(*b*) Simple unseen Sanskrit passages from any work on Philosophy for translation into English.

H.—(*Prakrit.*)

Paper V.—(*a*) Prasna Vyakarana and Vipakasutra.

(*b*) Translation from English into Sanskrit (or Prakrit, at the option of the candidate).

Paper VI.—(*a*) Prakrit portions of the following dramas:—

Sakuntala, Vikramorvasi, Malavikagnimitra, Uttaracharita, Malatimadhava, Maha-vira-Charita, Mrichhakatika, Mudrarakshasa, Ratnavali, Karpuramanjari-Venisanhara.

(*b*) Translation from Sanskrit into Prakrit.

Paper VII.—(*a*) Setubandha; Gaudavaho; Kumarapalacharita together with a general knowledge of Prakrita Paingalam,

(*b*) Simple unseen passages in Prakrit for translation into English.

Paper VIII.—(*a*) Prakrit Grammar as in Vararuchi's Prakrita Prakash (Cowell), Chhandah's Prakrita Lakshanam (Hœrnle), Hemchandra (Pischel).

Candidates are also expected to be familiar with the substance of Hœrnle's Grammar of the Gaudian languages.

(*b*) Simple unseen passages in Prakrit for translation into Sanskrit.

I.—(*Epigraphy and History.*)

Paper V.—(*a*) Rajatarangini and its continuations with Stein's Introduction and commentary.

(*b*) Unseen passages in Sanskrit for translation into English.

Paper VI.—(*a*) Inscriptions of Asoka.

(*b*) Early Indian Alphabets.

Paper VII.—*Epigraphia Indica*—Vol. I, Inscriptions Nos. 1, 8, 11, 13, 35.
Vol. III, Nos. 8 and 17.
Vol. V, Nos. 2 and 19.
Vol. VI, Nos. 1 and 14.
Vol. VII, No. 6.

Fleet's Corpus Inscriptionum.—Nos. 1—18, 33—37.

Prachina Lekha mala.—The first fifty Lekhas as published in the Kavyamala Journal.

Paper VIII.—(*a*) Ancient Geography of India.

(*b*) Translation from English into Sanskrit.

PALI.

GROUPS A, B AND C, COMMON PAPERS I—IV.

Paper I.

Jatakas—Ed. Fausboll, Nepātās VIII—XI.

Thera Gāthā } Pali Text Society's Edition.
Theri Gāthā }

Paramatthadipani on Theri Gāthā (P. T. S. Edition).

Digha Nikaya—The following six Suttas:—

Brahmajāla Sutta.
Samaññaphala Sutta.
Tevijja Sutta.
Mahāparinibbna Sutta.
Mahāsatipatthana Sutta.
Agaññ̃a Sutta.

Sumangala Vilasini—The commentaries on the six abovenamed Suttas (P. T. S. and Rangoon edition).

Dhammapada—The whole with extracts from Buddha Ghosa's commentary which are given in the Buddhist Text Society's Edition.

Unguttara Nekāyā—Tīka Nipātā.

Paper II.

Dhammasangani—Kāmāvacara, Kusala, Niddeso.
Atthasālini—Rangoon edition, pages 86 to 185.
Nettipakarana—The whole.

Paper III.

Kaccāyana - The whole.
Rūpasiddhi—The whole.
Sanskrit Grammar for the B.A. Pass.
Kātantra—Nāmakalpa only.

Paper IV.

Sanskrit Text for the Intermediate.
Avadāna Kalpalatā—Pallavas 52—65.
Lalita Vistarā—The whole.
Ashvaghosha's Buddacarita—The whole.

GROUP A (LITERARY).

Paper V.

Pischel	...	Grammar of the Prakrita Dialects.
Vararuchi	...	Prákrita-Prakasa.
E. Müller	...	Pali Grammar (Phonology only).
Frankforter	...	Handbook of Pali Grammar.
Sayce	...	Introduction to the Science of Language.

Paper VI.

Inscriptions of Asoka—(Senart and Bühler.)
Vincent Smith's Asoka—(Rulers of India Series).

Paper VII.

Rhys Davids		Buddhist India.
		Buddhism.
		American Lectures.
Kern	...	Manual of Indian Buddhism.
Hardy	...	Manual of Buddhism.
Oldenberg	...	Buddha.

Paper VIII.

No text-books prescribed.

GROUP B (PHILOSOPHY).

Paper V.

Abhidhammattha Sangaha	..	The whole.
Vibhāvani Tika	...	Rangoon Edition—The whole.
Vibhanga	...	Whole (Rangoon Edition).
Sammohavinodani Atthakathā		Whole (Rangoon Edition).
Bodhicaryavatara	...	Whole (La Vallee Poussin's Edition).
Nyāyavindutīkā	...	Whole.

Paper VI.

Nāgārjuna's Madhyamika Karika with Vritti (Edition published in the Bibliothe. Buddhica).
Pramāna-naya-tatvâlokâlankāra.
Dignaga—Pramāna—Sammuchchaya.

Paper VII.

Atmatatvaviveka—Fasciculus I (Text only).
Sarvadarsnassangraha ... } The portions which deal with Buddhism.
Shatdarshana—Samuccaya (Ed. Suali) ...
Sankara-bhâshya—Adhyāya 2, Pāda 2, Aphorisms 18 to 32 dealing with Buddhism.
Udyotkara's Naya-Vartika—Adhaya I—Ahnika I, Adhyaya III—Ahnika I. (Aphorisms 1—3).

Paper VIII.

No books prescribed.

GROUP C (EPIGRAPHICAL).

Paper V.

Mahavamsa—Chapters XXI—XXXVII with Tika.

Paper VI.

Inscriptions of Asoka ... ... Senart and Bühler.
Bühler ... ... Indian Palæography and Epigraphy, seventeen Tables for Indian Palæography.

Paper VII.

Epigraphia Indica—Vol. I, Inscriptions VIII, XX, XXII, XXX, XXXV.
Vol. II, Inscriptions I, VIII, XXI
Vol. III, Inscriptions XXXVII, XL, XLVI.
Vol. IV, Inscription XXIX.

Fleet's Corpus Inscriptionum Indicarium—Vol. III—

The Inscriptions of Samudragupta, Chandragupta, II. Skandagupta, Viswavarman, Kumaragupta, Maharaja Hastin, Jayanatha, Sarvanatha.

The Junagarh Inscription—Rudradámana.

Paper VIII.

Cunningham's Ancient Geography of India with additions and corrections by more recent scholars.

ARABIC.

(To be notified hereafter.)

PERSIAN.

(To be notified hereafter.)

MENTAL AND MORAL PHILOSOPHY.

History of Ancient European Philosophy.

Paper I.

The following books are recommended :—

Erdmann ... ... History of Philosophy.
Ferrier ... ... Lectures on Greek Philosophy.
Zeller ... ... Plato
or
Zeller ... ... Aristotle.

Students will be expected to have a special knowledge of the systems of either Plato or Aristotle, and to show an acquaintance with the following special texts :—

Either
Plato's Republic
or
Aristotle's Metaphysics.

MEDIEVAL AND MODERN EUROPEAN PHILOSOPHY.

Paper II.

The following books are recommended :—

Erdmann ... ... History of Philosophy.
Adamson ... ... Development of Modern Philosophy.

Students should be expected to have a special knowledge of the system of Kant.

Outlines of Indian Philosophy.

The following books are recommended:—

Max Müller ...	... Six Systems of Indian Philosophy.
Deussen ...	... Philosophy of the Upanishads.
Rhys Davids ...	... Hibbert Lectures on Indian Buddhism.
Madhavacharyya	... Sarvadarsana Sangraha (Cowell and Gough). [Charvaka, Baudha, Arhata, Ramanuja, Vaiseshika, Nyaya, Sankhaya, and Patanjali Systems.]
Sankara ...	... Commentary on the Vedanta Sutras, Second Adhyaya. Padas I and II only (Thibaut).

(i) PSYCHOLOGY.

General Psychology, Physiological Psychology, Comparative Psychology and Child Psychology.

The following books are recommended:—

James ...	... Principles of Psychology.
Ward ...	... Psychology (Articles in the two latest edition of the Encyclopædia Britannica).
Sully ...	... Human Mind.
Wundt ...	... Outlines of Psychology.
Herbert Spencer	... Principles of Psychology.
Stout ...	... Analytic Psychology.
Ladd ...	... Elements of Physiological Psychology.
Lloyd Morgan	... Comparative Psychology.
Baldwin ...	... Mental Development in the Child and the Race.

(ii) LOGIC.

Students are allowed to take up any *one* of the following two alternative courses in Logic:—

(*a*) Logic as Epistemology and Inductive Logic or Methodology,

or

(*b*) Logic as Metaphysics and Dialectic.

The following books are recommended:—

(*a*) *Logic as Epistemology and Inductive Logic or Methodology.*

Lotze	... Logic.
Sigwart	... Logic.
Mill	... System of Logic.
Hobhouse	... Theory of Knowledge.
Venn	... Empirical Logic.
Jevons	... Principles of Science.

(*b*) *Logic as Metaphysics and Dialectic.*

Kant	... Critique of Pure Reason.
Fichte	... The Science of Knowledge, translated by A. E. Troeger, with a preface by W. T. Harris (London, Trubner & Co.).
Hegel	... Wallace's "Logic of Hegel" and "Proleogomena."
Sterling	... Secret of Hegel.
W. T. Harris ...	... Logic of Hegel.
McTaggart ...	... Studies in Hegelian Dialectic.

(iii) ETHICS AND SOCIAL PHILOSOPHY.

Principles and Methods of Ethics, Psychology of Ethics, Metaphysics of Ethics, Sociological basis of Ethics, Philosophy of Right and of Law, Principles of Sociology.

The following books are recommended:—

Green ...	... Prolegomena to Ethics.
Martineau ...	... Types of Ethical Theory.
Sidgwick ...	... Methods of Ethics.
Wundt ...	... Ethics.
Herbert Spencer	... Principles of Ethics.
Kant ...	... Theory of Ethics (Abbott).
Hegel ...	... Philosophy of Right (Dyde).
Herbert Spencer	... Principles of Sociology (Vols. I and II).

(iv) PHILOSOPHY OF RELIGION.

Metaphysics of Religion, Theology and its Evolution, Science of Religion, Evolution of Religion, Psychology of Religion.

The following books are recommended:—

Lotze ...	... Outlines of the Philosophy of Religion.
Hegel ...	... Philosphy of Religion (Spiers and Sanderson).
Herbert Spencer	... First Principles, the Unknowable.
Martineau ...	... Study of Religion.
Ward ...	... Agnosticism and Naturalism.
Pfleiderer ...	... Philosophy of Religion.
E. Caird ...	... Development of Theology in the Greek Philosophers.
Flint ...	... Agnosticism.
Paul Janet ...	... Final Causes.

(v) SOME SPECIAL BRANCH OF INDIAN PHILOSOPHY.

Any one of the three following groups:—

(1) The Nyaya Sutras of Gautama with Bhashya of Vatsyayana.
Vartika of Udyotkara and Viritti of Visvanatha.
The Bhasha-Parichchheda with Siddhanta Muktavali.
The Kusumanjali of Udayana with commentary.

(2) The Sankhya Karika of Isvarakrishna with Sankhya Tattvakaumudi of Vachaspati Misra.
The Sankhya Sutras with Sankhya Pravachana Bhashya of Vijnanabhikshu.
The Vedanta Paribhasha
The Hastamalaka with commentary.
The Advaita Brahma Siddhi.
Sankara's commentary on the Vedanta Sutras (the first four Sutras and Adhyaya II, Padas I and II).
Ramanuja's commentary on the Vedanta Sutras (Introduction and the first four Sutras).

(3) The Sutras of Kanada with Bhashya of Prasastapada and Nayakandali of Sridhara.
The Bhasha Parichchhida with Siddhanta Muktavali.
Nagarjuna's Madhyamika Karika with commentary.
The Nyayavindu with commentary.

HISTORY.

The following are the selected periods, and following are the books (A) recommended for study and (B) named as books that may be referred to or consulted by candidates:—

(A) *Books recommended for study.*

PAPER I.

Selected period of English History.—From the Peace of 1815 to 1850, excluding the History of British India.

Spencer Walpole's History of England.
Martineau's History of the Thirty Years' Peace.
Cobden's Speeches on Free Trade.

PAPER II.

Selected Period of Indian History: from 1772—1793.

Forest's Selections from State Papers preserved in the Foreign Department, 1772—1785.

Burke's Speeches on the Impeachment of Warren Hastings.

Syed Gholam Hosain Khan's Seir Mutaqherin, sections XII—XVIII, from page 39 of Vol. III to page 119 of Vol. IV of the Calcutta reprint of the English translation published by Cambray & Co.

Fifth Report from the Select Committee on the Affairs of the East India Company, 1812, Bengal Presidency, the Report and Appendices I—V (pages 1—635 of Vol. I of the Madras reprint published by Higginbotham & Co.)

Mill's History of British India—Edited by Wilson, Vols. III, IV, V.

PAPER III.

General History of the Ancient East.

Maspero's Dawn of Civilization ... } Edited by Sayce, and translated by McClure.
Maspero's Struggle of the Nations ... }
Maspero's Passing of the Empires ... }

PAPER IV.

Constitutional History of England.

Stubbs' Constitutional History of England.
Hallam's Constitutional History of England.
Erskine May's Constitutional History of England.

PAPER V.

International Law.

Wheaton's Elements of International Law, the third or the fourth English Edition.
Hall's Treatise on International Law.

PAPERS VI AND VII.

One of the following :—

(*i*) *History of Islam*—

Muir's Life of Mahomet.
Muir's Annals of the Early Caliphate.
Gibbon's Decline and Fall of the Roman Empire, Chapters 50—53, 56—59, 64, 65, 67, 68.
Conde's Arabs in Spain, translated by Foster.
Lane-Poole's History of Egypt—Middle Ages.
Ferishta's History translated by Briggs.
Elliot's History edited by Dowson
Thomas' Chronicles of the Pathan Kings of Delhi.
Thomas' Revenue Resources of the Mughal Empire.
Ain-i-Akbari, translated by Blochmann and Jarrett.

(*ii*) *Special period of Indian History*—

The Hindu Period from the earliest times to the beginning of the 13th century:—
Mahabharata—Santi Parva—Sections 56—157 (pages 168—515 of Pratapchandra Ray's English translation).
Manusamhita—Translation by Bühler, in Sacred Books of the East.
Muir's Sanskrit Texts—Vol. I, Vol. II; Chapters 1 and 3, Vol. V, sections 22 and 23.
Weber's Indian Literature—The Vedas and Vedic Literature.
Duff's Chronology of India.
The Indian Antiquary, the Asoka Inscriptions, articles in Vols. IX, X, XVII, XVIII, XIX, XX and XXI.
Epigraphia Indica, Vol. II, portions relating to Asoka.
Corpus Inscriptionum Indicarum, Vol. III, the English portions only.
Kern's Manual of Indian Buddhism (Parts III and IV to be omitted).
Cunningham's Geography of India.
Greek writers on India—Ktesias, Megasthenes, Arrian, the Periplus of the Erythraean Sea, Nearchus and Ptolemy, all translated by McCrindle; McCrindle's Invasion of India by Alexander the Great.
Chinese Writers on India { Fa Hian, translated by Legge. Hiouen Tsang, translated by Beal.
Muhammadan writers on the Hindu Period—Alberuni's India, omitting the Mathematical details.
Bhandarkar's Early History of the Deccan.
Tod's Rajasthan—"History of the Rajpoot Tribes" and "The Feudal System in Rajasthan." (Vol. I, pages 1—174 of the Madras Reprint, published by Higginbotham & Co.)

(*iii*) *Economic History of England and India*—

Cunningham's Growth of English Industry and Commerce.
Bowley ... ... History of England's Foreign Trade in the XIX Century.
Fuchs ... ... Trade Policy of England.
Traill ... ... Social England, Vol. VI, Economic Section.
Buxton ... ... Finance and Politics.
Imperial Gazetteer of India, new edition, Vol. III (Economic) of the volumes on the Indian Empire.
Baden-Powell's Land Systems of British India (the portions bearing on Economic History).
Moral and Material Condition and Progress of India. (A knowledge of the general features of this condition and progress obtainable from a comparison of some of the annual issues is required, without insistence on numerical figures except in round numbers.)

(iv) *Comparative Politics*—

Hammond's Outlines of Comparative Politics.
Freeman's Comparative Politics.
Maine's Village Communities; Ancient Law; Early History of Institutions; Early Law and Customs.
Jenks' Law and Politics in the Middle Ages.
Sidgwick's Growth of European Polity.
Coulange's Ancient City. (Translated by Small.)
Aristotle's Constitution of Athens. (Translated by Poste.)
Bodley's France.
Bryce's American Commonwealth.
Lowell's Governments and Parties in Continental Europe.
Greenidge ... ... Greek Constitutional History.
Greenidge ... ... Roman Public Life.

(v) *Special period of European History—the Reformation*—

The Cambridge Modern History, Vol. II.
Michelet's Life of Luther.
Creighton's History of the Papacy, Vol. VI.
Hardwick's History of the Christian Church during the Reformation.
Stubbs' Seventeen Lectures on Mediæval and Modern History (the portions bearing on the Reformation).
Lindsay's History of the Reformation.
Burnet's History of the Reformation of the Church of England, Vols. I, II, III.
Froude's History of England } The chapters bearing on the Reformation.
Burton's History of Scotland }

(B) *Books that may be referred to or consulted.*

PAPER I.

Grenville's Journal of the reigns of George IV, William IV and Queen Victoria.
Sir R. Peel's Speeches on the Agricultural Distress and the Corn Laws.
Morley's Life of Gladstone, Books I, II, III.
Gladstone's Gleanings of Past Years, Vol. V.
Campbell's Lives of the Chancellors Eldon, Lyndhurst and Brougham.

PAPER II.

Grant Duff's History of the Marhattas.
Lieutenant-Colonel Wilks' Historical Sketch of the South of India.
Sir J. F. Stephen's Nuncomar and Impey.
Beveridge's Trial of Nandkumar.
Strachey's Hastings and the Rohilla War.

PAPER III.

Rawlinson's Five Great Monarchies.
Petrie's and Mahaffy's History of Egypt.
Ancient Records—Egypt, translated by Breasted.
Ancient Records—Assyria and Babylonia, translated by Harper
Breasted ... ... History of Egypt.

PAPER IV.

Dicey's Law of the Constitution.
Dicey's Privy Council.
Anson's Law and Custom of the Constitution.

PAPER V.

Oppenheim's Treatise on International Law.
Kent's Commentary on International Law, edited by Abdy.
Woolsey's Introduction to International Law.
Maine's Lectures on International Law.
Scott's Cases in International Law.
Westlake's International Law (Two Parts).

PAPERS VI and VII.

(i) As Suyuti's History of the Caliphs, translated by Jarret.
Price's Mahomedan History from Persian authorities.
Sir J. Malcolm's History of Persia.
Creasy's Ottoman Turks.
Freeman's Ottoman Power in Europe.
Khuda Baksh's History of Islamic Civilization.
Bayley's Guzerat.
Tabakat-i-Naziri, translated by Raverty.
Muntakhab-ul-Tawarikh, translated by Ranking.
Akbar Nama, translated by Beveridge
Jadunath Sarkar's India under Aurangzeb.

(*ii*) Rapson's Indian Coins.
Kalhana's Rajtarangini—English translation by Stein.
Corpus Inscriptionum Indicarum, Vol. I.

(*iii*) Macpherson's Annals of Commerce.
Young's Tour in Ireland.
Rogers' Six Centuries of Work and Wages.
Rogers' Industrial and Commercial History of England.
Rogers' Economic Interpretation of History.
Dowell's History of Taxation and Taxes in England.
Macpherson's History of European Commerce with India.
Hunter's Annals of Rural Bengal.
Macdonnell's Report on the Food-grain Supply in Bengal and Behar, 1873-74.
Report of the Famine Commission, 1898.
Ranade's Essays on Indian Economics, the 2nd edition, or the 1st edition with the omission of the Introductory Essay.
Dutt's India under Early British Rule.
Dutt's India in the Victorian Age.
Morison's Industrial Organization of an Indian Province.

(*iv*) Freeman's Historical Essays, Four Series.
Freeman's History of Federal Governments.
Freeman's Greater Britain and Greater Greece.
Guizot's History of Civilization.
De Tocqueville's France before the Revolution of 1789.
Bryce's Holy Roman Empire.
Lecky's Democracy and Liberty, Vol. I.

(*v*) Foxe's Acts and Monuments: from book VII.
Seebohm's Oxford Reformers of 1498.
Roscoe's Leo the Tenth
Ranke's History of the Popes.
Robertson's Charles the Fifth.
Armstrong's Charles the Fifth.
Schaff's Reformation in Swizerland.
Schaff's Reformation in Germany.
Fuller's Church History of Britain, Vols. III and IV.
Lingard's History of England ... } The chapters bearing on the Reformation.
Brewer's Reign of Henry VIII ... }
Baird's History of the Rise of the Huguenots.
Freeman's Cardinal Pole in Historical Essays, 4th Series.

POLITICAL, ECONOMY AND POLITICAL PHILOSOPHY.

Papers I and II.—General Economics.

A. Marshall...	...	Principles of Economics.
T. N. Carver	...	Distribution of Wealth.
H. R. Seager	...	Introduction to Economics.
Kinley ...	...	Money (Macmillan's Citizens Series.)
Withers ...	...	The Meaning of Money.
C. F. Dunbar	...	History and Theory of Banking.
Bastable ...	...	International Trade.
Bastable ...	...	Commerce of Nations.
Smart ...	...	Distribution of Income.
Sidgwick ...	...	Principles of Political Economy, Book III.
Jenks ..	...	The Trust Problem.
W. M. Acworth	...	The Elements of Railway Economics.

PAPER III.

General Principles of Political Philosophy.

Spencer's Sociology, Vol. II (Political Institutions).
Sidgwick's Elements of Politics.
J. S. Mill's Representative Government.
J. S. Mill's Liberty.
Bryce's Studies in History and Jurisprudence. Essays III, IX, X, XI and XII.
Pollock's Introduction to the History of the Science of Politics.

PAPER IV.

Public Administration.

Bastable's Public Finance.
Lowell's Government of England.
Dicey's Law of the Constitution.
Sir George Cornewall Lewis's Government of Dependencies.
Imperial Gazetteer of India—Vol. IV (Administrative).
Administration Reports of Bengal *or* Eastern Bengal and Assam *or* Burma.

Any recent issues to be read with the view explained in the note on Blue Books under Papers VI and VII. (*iii*) Group A.

GROUP A.

Paper V.—General History of Economics.

Ingram ... ... History of Political Economy.
Cossa ... ... Introduction to the Study of Political Economy.
Cliffe Leslie ... ... The philosophical method of Political Economy and The History of German Political Economy.
Cunningham ... ... Growth of English Industry and Commerce. Last volume.
Imperial Gazetteer ... Vol. III. (Economic.)
C. D. Wright ... Industrial Evolution of the United States.
Palgrave ... ... Dictionary of Political Economy (articles on the Austrian, English, French, German and Italian Schools and on the chief English Economists in the past).

Articles in the Economic Journal -
Wieser—The Austrian School and the Theory of Value—Vol. 1, pp. 108, *et seq.*
Gide—Economic Literature in France—Vol. XVII, pp. 192, *et seq.*

Papers VI and VII.

(*i*) The History, Theory, and Present Systems of Banking and Currency.

Conant ... ... Principles of Money and Banking.
Pierson ... ... Principles of Economics, Part II (Money).
F. A. Walker ... ... Money.
Nicholson ... ... Money and Monetary Problems.
Jevons ... ... Investigations in Currency and Finance (new abridged edition).
Burton ... ... Commercial Crises.
H. C. Emery ... ... Speculation on the Stock and Produce Exchanges.
L. L. Price ... ... Money in its relation to prices.
Marshall's Evidence, Gold and Silver Commission, 1888
Foxwell, Nicholson, Giffen Evidence before Royal Commission on Agricultural Depression, 1895-97.
Evidences of O'Conor, L. Probyn, Marshall, L. Darwin, Aldenham, Courtney, Giffen, and R. C. Dutt. (Indian Currency Committee, 1898.)

(*ii*) History, Theory and Present Organization of International Trade.

Chapters bearing on the subject in Ricardo, J. S. Mill and Cairnes.

List ... ... National system of Political Economy, Book II.
Fawcett ... ... Free Trade and Protection.
W. J. Ashley ... Tariff Problem.
W. Smart ... ... Return to Protection.
Pigou ... ... Protective and Preferential Import Duties.
Sir R. Giffen .. ... The use of Import and Export Statistics (Essay IX in Vol. I of Economic Inquiries and Studies).
A. L. Bowley ... National Wealth and Progress (P. S. King).
Goschen ... ... Foreign Exchanges.
P. Ashley ... ... Modern Tariff History.
Taussig ... ... Tariff History of the United States.
Bowley ... ... England's Foreign Trade in the XIX Century.
Fuchs ... ... Trade Policy of England.
C. H. Chomely ... Protection in Canada and Australasia (P. S. King).
Views of the Government of India on the Question of Preferential Tariffs, 1904. Cd. 1931.

(*iii*) *The Theory and Practice of Statistics including Demography—*

1. A. L. Bowley ... Elements of Statistics.
2. Giffen ... ... Economic Inquires and Studies, 2 vols.
3. Mayo Smith ... Statistics and Economics (Vol. II of his Science of Statistics).
4. The Jubilee volume of the Royal Statistical Society.
5. British and Foreign Trade and Industries, being Memoranda, etc., prepared by the Board of Trade (commonly called the Fiscal Blue Books).

Imperial Gazetteer, new edn., Vol. 1., Chaps, IX and X.

Administrative Reports of Bengal, or East Bengal and Assam or Burma :—
Any recent issues (to be read with a view to a general knowledge of conditions and progress, with special reference to statistics.

(iv) *Mathematical Economics*—

Cunnynghame	...	Geometrical Political Economy.
Cournot ...	...	Mathematical Principles of the Theory of Wealth.
Jevons ...	...	Theory of Political Economy.
Marshall ...	...	Principles of Economics (Mathematical Appendices).
Pantaleoni ...	...	Pure Economics
Edgeworth ...	...	Mathematical Psychics.
Wicksteed ...	...	Alphabet of Economic Science.
Wicksteed ...	...	Common Sense of Political Economy.

Articles by Flux, Sanger Chapman, Pigou and Edgeworth in the Economic Journal (bearing on Mathematical Economics).

GROUP B.

PAPER V.

General History of Political Philosophy.

Theories of the state contained in—

(a) Aristotle's Politics,
(b) Hobbes' Leviathan,
(c) Locke's two Treatises on Government.
(d) Rousseau's Social Contract.
(e) Kant's Principles of Politics (Hastie's translation of the four Essays on Political theory).

Austin's Jurisprudence—Lectures V and VI.
Sir H. Maine's Lectures on Sovereignty (XII and XIII) in his Early History of Institutions.
Dunning's History of Political Theories.
(a) Ancient and Mediæval.
(b) From Luther to Montesquien.

PAPERS VI AND VII.

Comparative Study of Political Institutions.

I.

Hammonds' Outlines of Comparative Politics.
Freeman's Comparative Politics.
Maine's Village Communities.
Maine's Ancient Law.
Maine's Early History of Institutions.
Maine's Early Law and Custom
Jenks' Law and Politics in the Middle Ages.
Sidgwick's Growth of European Polity.
Coulanges' Ancient City. (Translated by Small.)
Aristotle's Constitution of Athens. (Translated by Poste.)
Bodley's France.
Bryce's American Commonwealth.
Lowell's Governments and Parties in Continental Europe.
Greenidge—Greek Constitutional History.
Greenidge—Roman Public Life

II.

Comparative Study of Social Institutions.

Comte's Positive Philosophy—Translated by Miss Martineau—Book VI.
Spencer's Principles of Sociology, Vol. I.
Giddings' Principles of Sociology.
Tylor's Primitive Culture.
Max Müller's Origin of Religion.
Frazer's Psyche's Task.
Lecky's History of Rationialism in Europe, Vol. II.
Mackenzie's Introduction to Social Philosophy.
Census Report for India, 1901, by Sir Herbert Risley.
C. D. Wright—Elements of Practical Sociology.

III.

International Law with reference to existing Political and Economic Institutions.

Hall's Treatise on International Law.
Westlake—International Law (Peace and War), 2 Vols. Chapters on International Law.
Lawrence—War and Neutrality in the Far East.
Lawrence—International Problems and Hague Conference.
Scott's Cases on International Law.

SENATE-HOUSE,
The 3rd December, 1910.

G. THIBAUT,
Registrar.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY

M. A. AND M. Sc. EXAMINATIONS, 1913.

MATHEMATICS.

NOTE.—It is to be understood, that in the following list of Text books wherever a book is recommended for a subject students are expected to read those parts of the book only which deal with that particular subject.

Pure Mathematics.

1. Higher Algebra—
   - Hall and Knight ... Higher Algebra.
   - C. Smith ... ... A Treatise on Algebra.
2. Higher Plane Trigonometry—
   - Hobson ... ... Plane Trigonometry.
3. Spherical Trigonometry—
   - Casey ... ... Spherical Trigonometry.
   - Todhunter ... ... Spherical Trigonometry (Ed. Leathem).
4. Theory of Equations and Algebra of Quantics—
   - Burnside and Panton ... Theory of Equations.
   - Grace and Young ... Algebra of Invariants.
   - Elliott ... Introduction to the Algebra of Quantics.
5. Plane Analytical Geometry, including Higher Plane Curves—
   - Salmon ... ... Conic Sections.
   - Salmon ... ... Higher Plane Curves.
   - Basset ... ... Treatise on Cubics and Quartics.
6. Geometry of Surfaces—
   - Salmon ... ... Geometry of Three Dimensions.
   - Frost ... ... Solid Geometry.
7. Differential Calculus—
   - Edwards ... ... Differential Calculus.
   - Osgood ... ... Differential and Integral Calculus.
8. Integral Calculus—
   - Williamson ... ... Integral Calculus.
   - Osgood ... ... Differential and Integral Calculus.
9. Differential Equations—
   - Forsyth ... ... Differential Equations.
10. Calculus of Variations—
    - Bolza ... ... Lectures on the Calculus of Variations.
11. (*a*) Theory of Functions—
    - Harkness and Morley... Introduction to the Theory of Analytic Functions, *or* the corresponding portions of.—
    - Forsyth ... Theory of Functions, 2nd edition.

    (*b*) Theory of Groups—
    - Hilton ... ... Finite Groups.
    - Campbell ... Theory of Continuous Groups.

    (*c*) Finite Differences and Calculus of Functions—
    - Boole ... ... Finite Differences.
    - Carmichael ... Calculus of Operations.
    - Herschel ... ... Examples of Calculus of Finite Differences.
    - Babbage ... ... Examples of Functional Equations.
    - Whittaker ... Modern Analysis.

    (*d*) Vector Analysis and Quaternions—
    - Joly ... ... Quaternions.
    - Tait ... ... Quaternions.
    - Gibbs and Wilson ... Vector Analysis.

    (*e*) Projective Geometry—
    - Gibbs ... ... Scientific Papers, Vol. II, pp. 17—90.
    - Cremona ... ... Projective Geometry.
    - Scott ... ... Modern Analytical Geometry
    - Reye ... Geometry of Position. Tr. Holgate.
    - Whitehead ... Axioms of Projective Geometry (Cambridge Tracts No. 4).
    - Whitehead ... Axioms of Descriptive Geometry (Cambridge Tracts No. 5).
    - Russell ... ... Foundations of Geometry.

(*f*) Theory of Numbers—

Matthews ... Theory of Numbers.
Smith ... ... Reports on the Theory of Numbers (Collected papers, Vol. I, pp. 38—364).

Mixed Mathematics.

1 Advanced Statics, including Theory of Potential—

Minchin ... ... Statics.
Routh ... ... Statics.

2. Dynamics of a Particle—

Routh ... ... Dynamics of a Particle.

3. Rigid Dynamics—

Routh ... ... Elementary Rigid Dynamics.

4. Hydrostatics, including Capillarity—

Besant and Ramsey ... Hydrodynamics, Part I (Hydrostatics).

5. Hydrodynamics—

Lamb ... ... Hydrodynamics.
Bassett ... ... Hydrodynamics.

6. Spherical Astronomy—

Ball ... ... Spherical Astronomy.

7. (*a*) Theory of Elasticity—

Love ... ... Theory of Elasticity, 2nd edition.

Candidates are also recommended to refer to—

Todhunter and Pearson. History of Theory of Elasticity.

(*b*) Advanced Dynamics—

Whittaker ... Analytical Dynamics.
A. C Webster ... Dynamics.
Routh ... ... Advanced Rigid Dynamics.
Hertz ... ... Principles of Mechanics.

(*c*) Higher Parts of Spherical Astronomy—

Chauvenet ... Spherical Astronomy.
Newcomb ... Spherical Astronomy.

(*d*) Lunar and Planetary Theories—

Adams ... ... Lectures on Lunar Theory.
Airy ... ... Mathematical Tracts.
Brown ... ... Lunar Theory.
Cheyne ... ... Planetary Theory.
Moulton ... ... Celestial Mechanics.

(*e*) Figure of the Planets—

Todhunter ... History of the Theory of Attraction and the figure of the Earth.
Thomson and Tait ... Natural Philosophy.
Airy ... ... Mathematical Tracts.
Airy ... ... Figure of the Earth. Enc. Metr.
Clark and Radau ... Figure of the Earth. (Enc. Britt., Vols. VII and XXVII).
Pratt ... ... Figure of the Earth.

(*f*) Theory of Tides—

Basset ... ... Hydrodynamics.
Darwin ... ... Tides and Kindred Phenomena. (Murray, 1898.)
Darwin ... ... Tides. (Enc. Britt., Vols. XXIII and XXXIII.)
Darwin ... ... Scientific Papers, Vol. I, pt. I.
Airy ... ... Tides and Waves. (Enc. Metr.)

PHYSICS.

No text-books are prescribed or recommended.

The students are required to consult their Professors as to a suitable course of reading, which should include the study of original papers.

CHEMISTRY.

(In addition to the books prescribed for the B. A. and B. Sc. Pass and Honours Courses.)

(a) PHYSICAL CHEMISTRY.

Ostwald Walker ...	Physico-Chemical Measurements.
Nernst (trans. by Lehfeldt)	Theoretical Chemistry (4th edition).
Mellor	Chemical Dynamics and Reactions.
Findlay	The Phase Rule.
Lehfeldt	Electro-Chemistry.
Van t'Hoff	Lectures on Theoretical and Physical Chemistry.
Jeans	Dynamical Theory of Gases.
Travers	Study of Gases.
Rutherford ...	Radio-Activity.
Thomsen	Thermo-Chemistry.
Ostwald	Principles of Chemistry.
E. C. Baly	Spectroscopy.
S. Young	Stoichiometry.

(b) INORGANIC CHEMISTRY.

Myer	History of Chemistry.
Fresenius	Qualitative Analysis and Quantitative Analysis.
Sutton	Volumetric Analysis.
Hempel	Gas Analysis.
Treadwell and Hall ...	Analytical Chemistry, Vols. I and II.
Roscoe and Schorlemmer ...	Treatise on Chemistry, Vols. I and II.

(c) ORGANIC CHEMISTRY.

Richter	Organische Chemie (9th edition).
Gattermann	Practical Organic Chemistry.
J. B. Cohen	Advanced Organic Chemistry.

Candidates for the M. A. or M. Sc. Examination are required to consult original papers in the Chemical Society's Journals and other Scientific Periodicals, and also to consult the Annual Reports issued by the Chemical Society on the "Progress of Chemistry," in connection with the especial subject taken up by them.

GEOLOGY.

No text-books are prescribed or recommended. The subject is to be studied in accordance with the syllabus prescribed in the Regulations.

PHYSIOLOGY.

(No text-books are prescribed.)

BOTANY.

No text-books are prescribed. The subject is to be read in accordance with the prescribed Syllabus

ZOOLOGY AND COMPARATIVE ANATOMY.

(No text-books are prescribed.)

SENATE HOUSE,
The 3rd December, 1910.

G. THIBAUT,
Registrar, Calcutta University.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

LICENTIATE IN TEACHING EXAMINATION, 1913.

(1) THE THEORY AND PRACTICE OF TEACHING IN RELATION TO MENTAL AND MORAL SCIENCE, AND (2) METHODS OF TEACHING SPECIFIC SUBJECTS AND SCHOOL MANAGEMENT.

Books recommended.

Lloyd Morgan ...	Psychology for Teachers (Edward Arnold).
Raymont	Principles of Education.
Barnett	Teaching and Organization.
Landon	Teaching and Class Management.
Francis Warner ...	The Study of Children and their School Training.
Adamson	The Practice of Instruction (Natural Society's Depository).
Welton	Principles of Teaching (University Tutorial Press).

(3) SELECTED EDUCATIONAL CLASSICS.

Locke	Some Thoughts Concerning Education.
Frœbel	Education of Man (International Educational Series published by D. Appleton & Co.).

(4) ENGLISH.

(To be notified hereafter.)

SENATE HOUSE,
The 3rd December, 1910.

G. THIBAUT,
Registrar.

ORDERS BY THE HON'BLE THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

EXAMINATION FOR THE DEGREE OF BACHELOR OF TEACHING 1913.

(1) THE THEORY AND PRACTICE OF TEACHING IN RELATION TO MENTAL AND MORAL SCIENCE, AND (2) METHODS OF TEACHING SPECIFIC SUBJECTS AND SCHOOL MANAGEMENT.

Books recommended.

Lloyd Morgan ...	Psychology for Teachers (Edward Arnold).
Raymont	Principles of Education.
Barnett	Teaching and Organization.
Landon	Teaching and Class Management.
Francis Warner ...	The Study of Children and their School Training.
W. James	Talks to Teachers on Psychology and to Students on some of Life's Ideals.
Findlay	Principles of Class Teaching.
Preyer	The Mind of the Child, Parts I and II.
Adamson	The Practice of Instruction (Natural Society's Depository).
Welton	Principles of Teaching (University Tutorial Press).

(3) HISTORY OF EDUCATIONAL IDEAS AND METHODS.

The following books are recommended as useful, for purposes of reference, to those engaged in teaching the prescribed course:—

Institutes of Manu ...	Chapter II.
Lalita-Vistara ...	Chapter X (Rajendralala Mitra's translation and notes)
Leitner	History of Indigenous Education in the Punjab, Part I, up to page 112.
Sarat Chandra Dass ...	Paper on Universities in Ancient India (Hindustan Review, March 1906).
Amir Ali	Spirit of Islam, Chapter XVIII.
Macdonald	Moral Training of the Young among Muslims (International Journal of Ethics, April 1905).
Quick	Educational Reformers.
Munro	Outlines of the History of Education (Macmillan).

(4) SELECTED EDUCATIONAL CLASSICS.

Books recommended.

Locke	Some thoughts concering Education.
Frœbel	Education of Man (International Education Series, published by D. Appleton & Co).
Milton	Tractate on Education (Cambridge University Press)

SENATE HOUSE,
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G. THIBAUT,
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